

NRI INSTITUTE OF TECHNOLOGY

POTHAVARAPPADU (V), (Via) NUNNA,
AGIRIPALLI (M), KRISHNA DISTRICT, A.P., Pin : 521 212



SELF STUDY REPORT (SSR) FOR ACCREDITATION

**By
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**



MARCH, 2017



NRI INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi : : Affiliated to JNTUK, Kakinada)
(An ISO 9001 : 2008 Certified Institution)

Pothavarappadu (V),
(Via) Nunna, Agiripalli Mandal,
Krishna District, A.P., INDIA
Pin : 521 212

Cell : + 9390 686868
Ph : 08656 - 324999, 0866 - 2469666
e-mail : nrihitech@rediffmail.com
URL : www.nrigroupofcolleges.com

Date: 18/04/2017

Dear Sir,

Sub : Submission of SSR – Request to Arrange for NAAC Peer Committee Visit – Reg.

Ref : 1. Track ID **APCOGN27078**.

2. Email date 6th April, 2017 accepting LOI.

Thank you for accepting our LOI. As per the instructions indicated in your e-mail, reference cited above, we are submitting herewith 5 (five) hard copies and one soft copy (CD) of SSR of our NRI INSTITUTE OF TECHNOLOGY, Pothavarappadu. We also uploaded the SSR submitted herewith, in our website www.nrigroupofcolleges.ac.in. Both the hard copies and the loaded version of SSR comprises the following.

1. Preface and Covering letter from the Head of the Institution.
2. Executive Summary- the SWOC analysis of the Institution.
3. Profile of the Institution.
4. Criteria-wise analytical report.
5. Inputs from each of the Department in the format provided.
6. Declaration by the Head of the Institution.
7. Compliance certificate.

Also enclosed Demand Draft for Rs. 3,00,000/- + 45,000 = 3,45,000/- bearing No. 174055

Dated 19/4/2017 drawn in favor of The Director, NAAC from BANK OF BARODA
Bank. Payable at Bangalore

We take this opportunity to request you to arrange the visit of NAAC Peer Committee at the earliest.

With regards,



Yours faithfully

(Dr. C. NAGA BHASKAR)

PRINCIPAL

NRI Institute of Technology
Pothavarappadu (V), Agiripalli (M)

CONTENTS

Description		
A	Covering Letter	
	Declaration by the Head of the Institution	
	Compliance Report	
B	Preface	01
	Executive Summary	02
	Profile of the College	15
C	Criterion-wise Evaluation Reports:	
	Criterion I : Curricular Aspects	26
	Criterion II : Teaching – Learning & Evaluation	68
	Criterion III : Research, Consultancy and Extension	113
	Criterion IV : Infrastructure and Learning Resources	161
	Criterion V : Student Support and Progression	185
	Criterion VI : Governance and Leadership & Management	227
	Criterion VII : Innovations and Best Practices	252
D	Evaluative Reports of the Departments:	
	1. Electronics and Communication Engineering	265
	2. Computer Science and Engineering	299
	3. Electrical and Electronics Engineering	323
	4. Information Technology	344
	5. Civil Engineering	363
	6. Mechanical Engineering	378
	7. Master of Computer Applications	403
	8. Basic Sciences and Humanities	420
	9. Annexure	434



NRI INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi : : Affiliated to JNTUK, Kakinada)
(An ISO 9001 : 2008 Certified Institution)

Pothavarappadu (V),
(Via) Nunna, Agiripalli Mandal,
Krishna District, A.P., INDIA
Pin : 521 212

Cell : + 9390 686868
Ph : 08656 - 324999, 0866 - 2469666
e-mail : nrhitech@rediffmail.com
URL : www.nrigroupofcolleges.com

Declaration by the Head of the Institution

I certify that the data included in this Self Study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the Institution after internal discussions and no part thereof has been outsourced.

I am aware that the Peer Team will validate the information provided in this SSR during the peer team visit.



Signature of the Head of the Institution with Seal

PRINCIPAL
NRI Institute of Technology
Pothavarappadu (V), Agiripalli (M)

Place : Pothavarappadu

Date : 15/03/2017



NRI INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi : : Affiliated to JNTUK, Kakinada)
(An ISO 9001 : 2008 Certified Institution)

Pothavarappadu (V),
(Via) Nunna, Agiripalli Mandal,
Krishna District, A.P., INDIA
Pin : 521 212

Cell : + 9390 686868
Ph : 08656 - 324999, 0866 - 2469666
e-mail : nrhitech@rediffmail.com
URL : www.nrigroupofcolleges.com

CERTIFICATE OF COMPLIANCE

(Affiliated / Constituent / Autonomous Colleges and Recognized Institutions)

This is to certify that **NRI INSTITUTE OF TECHNOLOGY** fulfils all norms.

1. Stipulated by the Affiliating University.
2. Regulatory Council / Body (Such as UGC, NCTE, AICTE, MCI, DCI, BCI, etc.)
and
3. The affiliation and recognition (if applicable) is valid as on date.

In case the affiliation / recognition are conditional, then a detailed enclosure with regard to compliance of conditions by the institution will be sent.

It is noted that NAAC's accreditation, if granted, shall stand cancelled automatically, once the institution loses its University Affiliation or Recognition by the regulatory Council, as the case may be.

In case the undertaking submitted by the institution is found to be false then the accreditation given by NAAC is liable to be withdrawn. It is also agreeable that the undertaking given to NAAC will be displayed on the college website.




(Dr. C. NAGA BHASKAR)

PRINCIPAL
PRINCIPAL
NRI Institute of Technology
Pothavarappadu (V), Agiripalli (M)

Date : 17/03/2017

Place : Pothavarappadu Village

NAAC - SELF STUDY REPORT

PREFACE

NRI Institute of Technology, Pothavarappadu was established in the state of Andhra Pradesh in the year 2008 under the patronage of **Sri Durga Malleswari Educational Society, Vijayawada** to provide quality Technical Education and to promote research and development activities in the fields of Science, Engineering and Technology.

The institution is situated in a clam and serene atmosphere, amidst lush green mango groves and is spread over 20 acres of natural setting. NRI Institute of Technology being located on the Vijayawada – Nuzvidu State Highway, is about 23 km from Vijaywada and 22 km from Gannavaram Airport.

NRI Institute of Technology is, affiliated to JNTUK, Kakinada and approved by AICTE, New Delhi. NRI Institute of Technology offers B.Tech., Programmes in the disciplines of CSE, IT, ECE, EEE, MECHANICAL and CIVIL Engineering. The Institute also offers Postgraduate courses with five specializations viz. Computer Science and Engineering, Digital Electronics and Communication Engineering, Power Electronics and Drives, Structural Engineering and Thermal Engineering in addition to MCA Program.

All the departments are well equipped with the State-of-the-art Equipment, Sophisticated Laboratories, Digital Library and Computer Centers, with the most contemporary facilities backed by advanced Computer Systems and Latest Software.

The institute has a brilliant team of well qualified faculty with vast experience in teaching and research. The faculty members have varied academic background in the fields of Engineering, Technology, Humanities and Sciences. They are also actively engaged in research and consultancy works and regularly publish their research findings in standard Journals of National and International repute. Some of the faculty members have received awards for academic excellence from JNTUK and various other government bodies.

NRI Institute of Technology also has the Distinction of Running Programmes like Microsoft Certificate Program, Oracle Certificate Program and boast of corporate alien as like Microsoft Academic Alliance, EMC² Academic Alliance. NRI Institute of Technology runs trainings programs like Infosys Campus connect and Wipro Mission 10x.

NRIIT also to its credit got a very active and dynamic Training& Placement division, which plays a very significant role in imparting life skills and other soft skills to the students and also in launching their careers.

PRINCIPAL

NAAC - SELF STUDY REPORT

EXECUTIVE SUMMARY

NRI Institute of Technology, popularly known as **NRIIT**, is a self-financing Engineering Institution established in the year 2008, by **Sri Durga Malleswari Educational Society**. NRIIT has self contained infrastructure amidst lush greenery of mango groves and is located strategically between Nuzivid and Vijayawada state Highway which is near to the Capital Region **Amaravati** in the state of Andhra Pradesh.

NRIIT is approved by the **All India Council for Technical Education** (AICTE), New Delhi, permitted by the **Government of A.P**, and is affiliated to **Jawaharlal Nehru Technological University Kakinada** (JNTUK), Kakinada, A.P. The Administration and Academics at NRIIT are well supported by Sri Durga Malleswari Educational Society and Governing body of the College consisting of eminent academicians, Professors, Industry experts and University representatives with decades of experience in premier Institutions.

The Institution was started with four approved undergraduate programs in the Departments of Electrical and Electronics Engineering (EEE), Electronics and Communications Engineering (ECE), Computer Science and Engineering (CSE), Information Technology (IT) with an overall intake of 240 students. Later, Departments of Civil Engineering, Mechanical Engineering, PG programs in M.Tech and MCA were introduced. In the year (2016-17), the college has grown manifold with a total student intake of 960, pursuing courses in six undergraduate and six postgraduate programs of engineering. The vision of the Institute is to impart quality education through exploration and experimentation and produce socially conscious engineers, embedding ethics and values, for the advancement in science and technology. The Institute, basing on the overall feedback of students, faculty and industry assesses the existing curriculum and adds extra topics beyond the syllabus prescribed by the affiliating University . Electives are offered by the affiliating University at both under graduate and post-graduate levels in terms of specializations. All programs offered by the Institute are semester based.

The intake of programs approved by AICTE and affiliated to JNTUK, Kakinada is as follows for the Academic year 2016-17.

S .No	Programme	Branch	Intake
UG			
1	B. Tech	Civil Engineering	120
2	B. Tech	Electrical and Electronics Engineering	60
3	B. Tech	Mechanical Engineering	180

NAAC - SELF STUDY REPORT

4	B. Tech	Electronics and Communications Engineering	180
5	B. Tech	Computer Science and Engineering	180
6	B. Tech	Information Technology	60
PG			
1	MCA	Master of Computer Applications	60
2	M. Tech	Computer Science and Engineering	36
3	M. Tech	Thermal Engineering	24
4	M. Tech	Power Electronics and Electrical Devices	18
5	M. Tech	Structural Engineering	24
6	M. Tech	Digital Electronics and Communication Systems	18

Teaching – Learning and Evaluation

The Institute strives to achieve excellence in teaching and learning by recruiting well qualified and dedicated teaching faculty and also maintains good retention ratio. In UG & PG 70% of admissions are carried out through APSCHE, EAMCET Convener and 30% of admissions are carried out through management quota which is purely based on merit. Meticulous planning for teaching at the beginning of every semester paves the way for efficient teaching environment.

Faculty: the academic programs and all academic activities of the institute are supported by a strong contingent of about 242 well qualified and experienced faculty members. Out of the 210 faculty members, 14 are PhD Degree holders and other 228 are Masters Degree holders. The college maintains a faculty student ratio of 1:15 for under graduate program and 1:12 for masters programs adhering to the norms of the AICTE and the affiliating University.

Subjects prescribed as per the regulations of JNTUK, Kakinada are allocated to the faculty based on their competencies and areas of expertise and specialization. For newly introduced subjects, head of the department requests the Principal for conducting a Faculty Development Program (FDP) by the experts in that subject. FDPs are also conducted for newly recruited faculty to induce and enhance the teaching abilities. Subjects are allocated well in advance to teachers by the Head of the Department and lesson plans, tutorial questions are prepared by the teacher concerned and the same are distributed to students. The syllabus coverage is monitored department-wise by the monitoring committee well before the commencement of mid-examinations. Discrepancies in syllabus coverage, if any, are brought to the notice of Head of the Department by the monitoring committee.

NAAC - SELF STUDY REPORT

Methods of Teaching:

The Institute continuously uses innovative methods of teaching, learning and evaluation process. Teaching and learning process adopts a student centric approach to achieve the desired learning outcomes. Interactive learning techniques, such as seminars, tutorials, video lectures, programming contests, mini and major projects, enrich the teaching and learning experience. Apart from the JNTUK prescribed syllabus, special coaching is given on communication skills, verbal, reasoning and aptitude techniques to prepare the students for competitive examinations and placements. Teachers prepare Course Files that include lesson plans, lecture notes, teaching methodology, objectives, outcomes, a record of classroom interaction and comprehensive performance of the students.

Evaluation and Monitoring:

The Institute has a continuous evaluation system. Internal assessments are conducted as per the guidelines of the affiliating University. In addition to the university prescribed examinations, continuous assessment of the student is done by administering weekly slip tests in all the subjects. The internal marks and attendance details are communicated to their parents during the counseling sessions by the staff counselors. The Examination Cell also communicates the internal marks and attendance report to parents through SMS and mobile app every month. The same marks are uploaded to the JNTUK, Kakinada Portal. Slow learners are identified and special remedial classes are arranged to strengthen them by subject teachers.

Research, Consultancy and Extension:

The institute encourages students and faculty to get themselves involved in research activities through its Research and Development Cell. If any project is sanctioned, full support to the Principal Investigator/Project Head is provided to implement the research scheme within the time frame. To create the zeal among students and teachers, college has procured sophisticated equipment, updated library facilities and latest research journals. Every month a review meeting is held to note the status of research and funded projects.

The Institute has 14 Doctorates and some of them are guiding Ph. D and M. Phil research students of various Universities. Nearly 45 members of the staff are pursuing their doctoral research at various universities. The Institute encourages research work among its faculty and students in various ways like sponsoring them to present and publish papers in national and international journals, conferences by providing them academic leave for research, conducting student technical symposiums, faculty development programs and workshops to name a few.

Infrastructure and Learning Resources

The institution very firmly believes that a good teaching/learning process

NAAC - SELF STUDY REPORT

requires ideal conditions. So, NRIIT has made it a policy of not compromising in establishing infrastructure and other resources. Accordingly the Institute has developed the infrastructure and other facilities as per AICTE norms. Good infrastructure like air-conditioned smart classrooms, well equipped laboratories, hygienic canteen, excellent transport facility, LAN and Wi-fi campus, library with internet facility, reading rooms, play grounds, power backup - both conventional and solar, Boys & Girls hostels etc., are provided by the college. There are 5 academic blocks that house seven disciplines of study namely, Civil Engineering, Electrical Engineering, Mechanical Engineering, Electronics and Communications Engineering, Computer Science and Engineering, Information Technology and Master of Computer Applications. The main block is an administrative hub, housing the Digital and the Central libraries, seminar and Conference Hall, Training and Placement Cell, Examinations Cell, chambers of the Chairman, Director, Principal and the Administrative Office along with Departments of ECE, CSE, IT and MCA. Departments of Civil, Mechanical and EEE are located in separate independent blocks. A central block in between Civil and Mechanical Engineering blocks hosts Common Computer Centre and Drawing Halls. Each academic block has its own modern up-to-date computer lab alongside the state-of-the-art departmental laboratories.

The Institute has state of the art library with reprographic facilities and also includes a digital library making it, in fact, one of the best libraries. The campus is eco friendly and optimally utilizes solar power to generate solar energy and also has a mineral water plant and rain water harvesting mechanism to optimize water resources. This Institute uses EZ - software to maintain student profile and attendance. The student performance data is shared with the parents on a periodic basis. There is an online evaluation system, useful for Training & Placements, based on Moodle Server that can be accessed online through student logins even from their homes.

In-house campus recruitment training program to the students on a regular basis. special coaching classes in foreign languages like German are also offered to the interested students.

Student Support and Progression

Various programs are synchronized to take care of the curricular, co-curricular and extra-curricular aspects of education. Formative tests are conducted and the academically weak students are given extra support. Remedial classes and study classes are held for those students. Customization and counseling the students are the healthy practices that help faculty to build a rapport with the students and reach out to them accordingly. Student Grievance Redress Cell effectively functions on the campus. The institution provides necessary coaching to enable the students to appear for various competitive exams. These include GRE, TOEFL, IELTS and GATE. In-house campus recruitment training, etc., Also institute provides training in foreign

NAAC - SELF STUDY REPORT

languages like German etc., The College has well equipped English language laboratories which are of help to the students in improving their communication skills. The institute also focuses on improving computer literacy among its students by arranging special lecture sessions to those students who are less exposed to computer usage and programming. Economically backward students are provided financial assistance, if necessary. Students are highly encouraged to participate in competitions conducted within the campus and elsewhere. There is a part time doctor on the campus to look after the health related issues of the students. There is a first aid clinic on the campus and the students can consult the concerned health care in-charge for minor ailments.

Governance Leadership and Management

The College Governing Body, comprising members from the sponsoring Society, AICTE, JNTUK and AP State Technical Education, Industry and eminent Educationalists, conducts at least two meetings in an academic year and discusses various academic issues and developmental activities, problems faced in the past and how to rectify them in the future etc. The developmental activities are supervised by the management which includes extension of a building, providing additional facilities, introduction of new courses, inclusion of new faculty, employing staff, student admissions, etc. The management conducts periodical staff meetings to review the quality policy and development of the institution. It also arranges for the confidential evaluation of the teachers and the overall institutional performance by the students, which is perused by the Principal to take necessary steps toward institutional development. Income/expenditure are closely monitored by a Chartered Accountant and overseen by the Management. All the staff is permitted to avail leaves like CL, SCL, OD, EL and ML as per Leave Rules and Service Rules of the Institution

Departments

The democratic set-up is extensive with eight departments – Department of Sciences and Humanities (S&H), Department of Civil Engineering (CE), Department of Electrical and Electronics Engineering (EEE), Department of Mechanical Engineering (ME), Department of Electronics and Communications Engineering (ECE), Department of Computer Science and Engineering (CSE), Department of Information Technology (IT) and Department of Master of Computer Applications (MCA). Each department is headed by a senior professor and is given total freedom to innovate and plan its perspective development. Organizational hierarchy is maintained to ensure administrative harmony. Empowerment through total decentralization of the departmental administrative system into several committees and units headed by senior faculty, promotes co-operation, sharing of knowledge and innovations. Separate departmental budgets ensure that there is no unprecedented resource crunch. The departmental libraries are stacked with a

NAAC - SELF STUDY REPORT

good number of reference books and journals. The departments also work as nodal centers that facilitate liaison among various stakeholders. Inter-departmental collaborations for R&D activities are encouraged.

Laboratories

The college has sophisticated laboratories spread over 60 rooms in an area of 3474.63 sq m as per the norms laid down by AICTE. The college has a common Computer Center and an exclusive English Communication Skills Laboratory equipped with multimedia systems.

Staff

NRIIT is a cynosure of many faculty and non-teaching staff who work in this region. The faculty is regarded by the management as the real performers and contributors to the development of the institution. Faculty believes in teamwork that leads to the best practices of the institution. NRIIT faculty list boasts of award winners like best teacher of JNTUK, Government of Andhra Pradesh etc. After the inception of the college in 2008, five members were awarded PhDs and forty five members are pursuing their Doctoral research in different disciplines at reputed universities. The faculty of the college has published many research papers in international and national journals of repute.

Chronological Progress at a Glance

Year	Milestone
2008	<ul style="list-style-type: none">Establishment of NRIIT with four UG programs (EEE, ECE, CSE & IT) in Engineering with an intake of 240 students under the affiliation of JNTUK, Kakinada and approval from AICTE
2009	<ul style="list-style-type: none">Introducing MCA program with an intake of 60 studentsStarting of B. Tech degree course in Civil Engineering with an intake of 60 students and increase of intake in B. Tech (ECE) program from 60 to 120
2010	<ul style="list-style-type: none">Increase of intake from 60 to 120 in B. Tech (CSE) course
2011	<ul style="list-style-type: none">Starting of B. Tech course in Mechanical Engineering with an intake of 60 students
2012	<ul style="list-style-type: none">Increase of intake from 60 to 120 in MCA, B. Tech (Civil and Mechanical) coursesStarting of P.G courses M.Tech, ECE (DECS) and M.Tech, CSE (CSE) with an intake of 18 in each courseQuality policy implementation and ISO 9001: 2008 certification

NAAC - SELF STUDY REPORT

2013	<ul style="list-style-type: none"> • Increase of intake from 120 to 180 in B. Tech (CSE and ECE) courses. • Starting of P.G courses in M.Tech, EEE (PED) with an intake of 18 and increase of intake in M.Tech (CSE) from 18 to 36 • MoU with Infosys – Campus Connect • Best Teacher award to Dr. N. Samba Siva Rao, Head of the Department of EEE, by JNTUK for the year 2013-14 • NRIIT is Ranked AA by Career 360 • NRIIT is ranked as the 52nd Best Engineering College of the Country by Competition Success Review • Microsoft Academic partnered college • As per EET CRS Placement rating, NRIIT gets A+(the Best Engineering College of the Country) • EMC² Academic Allied College • NRIIT is ranked among the Top 200 potential Engineering Colleges of the Country by Silicon India
2014	<ul style="list-style-type: none"> • Increase of intake from 120 to 180 in B. Tech (Mechanical Engineering) • Starting of P.G courses in M. Tech Civil (Structural Engg.) and M. Tech Mechanical (Thermal Engg.) with an intake of 24 each • NRIIT recognized by UGC under section 2(f) • Nodal Centre of Andhra Pradesh State Skills Development Centre (APSSDC) • Asia Pacific HRM Congress, 2014 – Award for “INDUSTRY INTERFACE” in Pune • Infosys Campus Connect Program
2015	<ul style="list-style-type: none"> • Wipro Excellence Award, 2015 – Award for “EXCELLENCE IN RECRUITMENT DRIVES” in Vijayawada region • Virtusa Consulting Services Ltd, 2015 – Award for “PREFERRED PLACEMENT PARTNER” • Virtusa Consulting Services Ltd, 2015 – Award for “DYNAMIC PLACEMENT OFFICER” • Virtusa Consulting Services Ltd, 2015 - Award for “PREFERRED PLACEMENTS PARTNER” in pool campus recruitments • AP State Skill Development centre for Krishna district for training the students on Mobile Apps development • Membership with Industry Institute Interface – Andhra Chapter • NRIIT awarded A-Grade by Department of Technical Education, Govt of AP based on “Key Performance Indications” for the year-2015

NAAC - SELF STUDY REPORT

2016	<ul style="list-style-type: none">• Quality policy implementation and Re-certification ISO 9001: 2015• NRIIT awarded A-Grade by Department of Technical Education, Govt of AP based on “Key Performance Indications” for the Year-2016• 138 Faculty members of various departments were ratified by the affiliating JNTUK University • Chairman, NRIIT Dr. R. Venkata Rao honored with membership in Executive Council of affiliating JNTUK University• NRIIT was presented with an award of excellence for motivating and guiding the students to participate in national Level Paper Presentation Contest on Make In India by Project Council, an ECI(Entrepreneurs Council of India) Initiative.• Mr.Vinay Kumar of II ECE was nominated for LIMCA Book of records for his innovation in NANO-REFRIGIRATOR in the year 2016.
-------------	--

Training and Placement Cell

The College has an exclusive and dedicated department to provide career guidance and placements to the students. A Training and Placement Officer leads the Training and Placement Cell, who is assisted by a Training Coordinator and Department Placement Coordinators. Add on courses, are conducted for the students throughout their four years of study to improve their soft skills and technical skills. The cell offers both in-house training and conducts sessions on mock recruitment process. The college has partnered with Co-Cubes, Monster, JKC for Training and Placement activities. The placement cell maintains a record of all the interviews held on campus and off-campus selections. As and when the results are declared, the cell takes the responsibility to circulate the same information to all the students regarding the achievement to boost their morale and inspire other students. Industry oriented thinking is inculcated right from the first year of B. Tech program. Soft skill training is offered from the second year. Regular guest lectures are organized with people from the industry as resource persons. Industry oriented project work and internship are encouraged. Training is also given for certification programs.

Campus Placements

Even though being a young and growing institution which is celebrating its 8th anniversary and which has sent out only five batches of students, NRIIT has succeeded in achieving in the year 2016 alone, record placements of over

NAAC - SELF STUDY REPORT

300 students in 35 companies. In the last four years, 756 students were placed by the Training and Placement cell of the college in nearly 50 companies.

NRIIT is considered the right choice by various prestigious MNCs for conducting their mega pool campus recruitment drives besides conducting prestigious examinations that open up employment and career opportunities to deserving candidates, NRIIT has Tie-up with TCS and NSEIT to hold online examinations on their behalf. Various State Government, Public Service Commission examinations like APPSC Group-I, II, III, IV, VRO, VO, etc; State Government Higher Education Commission examinations like EAMCET, PGECET, etc; and national examinations like IIT JEE, Post-Graduate Medical Entrance Examinations, Army Recruitment Examinations, etc. are conducted with responsibility and confidentiality by the college.

Entrepreneurship Development Cell

The college has established Entrepreneurship Development Cell (EDC). The objectives of the Cell are

- Developing entrepreneurial spirit, characteristics and leadership qualities among students.
- Developing technical, technological and professional competencies needed for entrepreneurial and productive work.
- Imparting managerial capabilities to run a business or a small scale unit successfully.
- Creation and dissemination of current knowledge and latest insights in entrepreneurial theory and practice.

Alumni Association

Each and every department seeks the opinion / suggestions of alumni on various developmental activities of the institute by sending mails to them and requesting them to fill the forms supplied in this regard. An alumni portal is designed as a part of the college website for effective and quick interaction between the college and alumni. Alumni meetings are held every year on the college campus.

Library

The college has a computerized Central Library which is well equipped with a large collection of books under the categories of academics, reference and general books. All the books are bar-coded and indexed using the latest library management software. The library also subscribes to both national and international magazines, journals and periodicals in addition to procuring leading national dailies. It is a book house of knowledge, where its prime motto is to guide every student in an appropriate way and pave the road to acquiring knowledge and thereby success. A student book bank is operated in the library. It meets the innumerable needs of the students in the academic curriculum. It satiates the intellectual hunger and quenches the thirst for

NAAC - SELF STUDY REPORT

knowledge of the scholarly students. The book collection ranges from literary classics to management guide and from career counselors to technical reviews.

Internet

Seamless Internet facilities are provided using optical fiber backbone, covering Departments, Labs, and Library and Class rooms throughout the campus through 65 Mbps leased lines from a highly competent Service Provider. One lab is dedicated for internet services during the evenings.

LAN facility: All computing labs are provided with LAN facility.

Wi-Fi facility: Wi – Fi facility is available in the institute.

Co-curricular, Extracurricular & Cultural activities

College encourages its students to take part in various co-curricular, extracurricular and cultural activities. They are promoted through various student clubs. The college students have excelled in various competitions at university, state, zonal and national levels.

NSS Activities

To encourage students in serving the nation and society, the nearby village (Kanasanapalli) is adopted and weeklong special camps are conducted every year. Students in large number actively participate under the guidance of the Program Officer. Awareness regarding cleanliness, importance of education, health care and self help is created.

Sports and Games

The college is regularly representing at various inter-institutional, State and National tournaments. Coached by two Physical Education Trainers, selected students are made to participate in the JNTUK University teams. NRIIT provides facilities and the required equipment for both indoor and outdoor games to the students. A sports day is conducted every year where the students receive certificates and medals for their sports talent in the intramural competitions. A spacious play ground is available for outdoor games like Cricket, Football, Volleyball, Basketball, Badminton etc. Facilities for playing Indoor games like Table Tennis, Chess, Caroms etc, are provided to students in the college campus.

Cultural Clubs and Student Bodies

The college has eight cultural clubs and every student gets enrolled into a club of his/her choice. Three hours are earmarked for the activities of the club every week. Besides the faculty, experts from outside the college act as resource persons for the clubs.

NAAC - SELF STUDY REPORT

Innovations and Best Practices

The institution follows best practices like maintaining discipline, professional ethics and excellence in teaching. The campus is a ragging free zone with a vigilant anti-ragging committee. Students also involve in community development and social service activities through NSS by organizing and involving themselves in blood donation camps, distribution of food and clothing for the poor, organizing social awareness camps in the nearby villages and so on. The institution has ICT class rooms well equipped with LCD projectors, Multimedia PCs, restricted Wi-Fi and complete LAN connectivity and Internet access.

- Air-conditioned seminar hall is provided with PCs and projection systems to support serving a large number of audience.
- JNTUK's CoERD portal is available for students and staff to browse/download subject wise e-content.
- NPTEL and online courses of various IITs are made available to the students and staff.

Points of Pride

- NRIIT is an ISO 9001: 2015 Certified institution
- NRIIT was awarded A-Grade by Department of Technical Education, Govt of AP based on "Key Performance Indications" in the year 2016.
- NRIIT achieved Gold medal (University first rank) in JNTU Kakinda from the first outgoing batch, 2012 in the Department of Computer Science and Engineering.
- NRIIT is ranked as the 52nd Best Engineering College of the Country by Competition Success Review - July, 2013
- NRIIT is Ranked among the Top 200 potential Engineering Colleges of the Country by Silicon India - July, 2013
- NRIIT is rated AA by Career 360 - July, 2013
- NRIIT, VJA, AP Is Ranked as the A+ ,the Best Engineering College of the Country by EET CRS Placement Rating -13
- EMC² Academic partnered College in Krishna District
- Runs the Campus Connect program of Infosys
- Microsoft Academic partnered college in Krishna District
- TCS ION Centre for conducting online exams for govt. sector exams
- Winner of Asia pacific HRM Congress award 2014 for Academic Excellence in industry- institute interface
- The college is recognized with UGC 2(f)
- Virtusa Consulting Services Ltd, 2015 - Award for "PREFERRED PLACEMENTS PARTNER" in pool campus recruitments.

NAAC - SELF STUDY REPORT

- Wipro Excellence Award, 2015 – Award for “EXCELLENCE IN RECRUITMENT DRIVES” in Vijayawada region.
- AP State Skill Development centre for Krishna district for training the students on Mobile Apps development.
- Recipient of “BEST TEACHER AWARD” from JNTUK for the year 2013-2014 by Dr. N. Samba Siva Rao, Professor and Head Department of EEE was awarded the same.
- Mr. Vinay Kumar of II ECE was nominated for LIMCA Book of records for his innovation in NANO-REFRIGIRATOR in the year 2016.

Institute SWOC Analysis

Strengths

1. Institute has well qualified and highly dedicated Teaching and Non-Teaching Staff.
2. Institute has well equipped infrastructure with spacious built-up area.
3. Outcome based teaching method focused on employment and entrepreneurship.
4. Institute has excellent rapport with corporate world for technical and managerial support.
5. Management with a vision for imparting quality education and student welfare.

Weaknesses

1. Students, being from rural areas, are striving to meet national and global standards in technical education and facing language barriers(English Language).
2. Institute has to upgrade its teaching community for more funded projects, quality research and development, patents and consultancy.

Opportunities

1. Institute is regularly organizing various development programs for the benefit of teachers and students through seminars, workshops, conferences, symposiums and student meets.
2. Ever increasing demand for technical education at UG & PG level of Engineering & Technology.
3. Many opportunities for tie-ups with both established and start-up companies in India and abroad for enhancing learning outcomes.

Challenges

1. Institute has competition from other technical Institutions and Universities.
2. To produce more qualified and industry ready technocrats.
3. To become a fully residential campus.
4. To implement rule of conversation in English on campus successfully.

NAAC - SELF STUDY REPORT

5. To obtain UGC 12(b) and NBA accreditation for getting more funds for research activities/projects for achieving patents.
6. To upgrade the institution to meet requirements for Autonomous status.

NAAC - SELF STUDY REPORT

SECTION - B

PREPARATION OF SELF-STUDY REPORT

PROFILE OF THE AFFILIATED / CONSTITUENT COLLEGE

1. Name and Address of the College:

Name :	NRI Institute of Technology				
Address :	Pothavarappadu(Village), Agiripally(Mandal)				
City :	Vijayawada	Pin :	521212	State :	AndhraPradesh
Website :	www.nrigroupofcolleges.ac.in				

2. For Communication:

Designation	Name	Telephone with STD code	Mobile	Email
Principal	Prof.C.Naga Bhaskar	O:08662469665 R:08662492712	8333882444 9490336868	cnbhaskar@gmail.com
Steering Committee Coordinator	Prof.K.V.Sambasiva Rao	O:08662469671 R:08662582587	9440115556	kvsambasivarao@rediffmail.com
Director of Academic	Prof. M.V.N. Sarma	O:08662469666	9492431515	drmvnarasimhasarma@gmail.com

3.Status of the Institution:

Affiliated College	√
Constituent College	----
Any other (specify)	----

NAAC - SELF STUDY REPORT

4. Type of Institution:

a. By Gender

i.	For Men	--
ii.	For Women	--
iii.	Co-education	√

b. By Shift

i.	Regular	√
ii.	Day	√
iii.	Evening	--

5. It is a recognized minority institution?

Yes	--
No	√

If yes specify the minority status (Religious/linguistic/ any other) and provide documentary evidence.

6. Sources of funding:

Government	-----
Grant-in-aid	-----
Self-financing	√
Any Others	--

7. a. Date of establishment of the college: 01 /06/ 2008 (dd/ mm/ yyyy)

b. University to which the college is affiliated /or which governs the college (If it is a constituent college) : Jawaharlal Nehru Technological University Kakinada (JNTUK), Kakinada, Andhra Pradesh

c. Details of UGC recognition:

Under Section	Date, Month & Year (dd-mm-yyyy)	Remarks(If any)
i. 2 (f)	12-01-2015	F.No:8-447/2014(cpp-1/c)
ii. 12 (B)	-----	-----

(Annexure-I: The Certificate of recognition of UGC 2 (f))

NAAC - SELF STUDY REPORT

- d. Details of recognition/approval by statutory/regulatory bodies other than UGC (AICTE, NCTE, MCI, DCI, PCI, RCI etc.)

Under Section clause	Recognition / Approval details Institution Department Programme	Day, Month and Year (dd-mm-yyyy)	Remarks
i. (AICTE)	South-Central/1-2814121317/2016/EOF	25/04/2016	2017
ii. (JNTUK)	JNTUK/DAP/B1/B.Tech/B.Pharmac y/ 2016-17	03/06/2016	2017
iii. (AP Govt)	GO.RT.NO-120	30-05-2016	2017

(Annexure-II:AICTE Approval Letter)

(Annexure-III:JNTUK Affiliation Approval Letter)

(Annexure-IV:AP Govt Approval Letter)

8. Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?

Yes No

If yes, has the College applied for availing the autonomous status?

Yes No

9. Is the college recognized

a. by UGC as a College with Potential for Excellence (CPE)?

Yes No

b. for its performance by any other governmental agency?

Yes No

If yes, Name of the agency **Andhra Pradesh State Council For Higher Education** And Date of recognition: **01/06/2008**
(dd/mm/yyyy)

NAAC - SELF STUDY REPORT

10. Location of the campus and area in sq.mts:

Location *	Rural
Campus area in sq. mts.	70776(16.37Acr)
Built up area in sq. mts.	23,450

(* Urban, Semi-urban, Rural, Tribal, Hilly Area, Any others specify)

11. Facilities available on the campus (Tick the available facility and provide numbers or other details at appropriate places) or in case the institute has an agreement with other agencies in using any of the listed facilities provide information on the facilities covered under the agreement.

- Auditorium/seminar complex with infrastructural facilities : **Yes**

- Sports facilities

* Play ground Yes No

* Swimming pool Yes No

* Gymnasium Yes No

- **Hostel**

Boys' hostel	
i. Number of hostels	01
ii. Number of inmates	200
iii. Facilities (mention available facilities)	Generator Television set Wi-Fi Medical AID General Store Washing Facility Sports Equipment.
Girls' hostel	
i. Number of hostels	01
ii. Number of inmates	150
iii. Facilities (mention available facilities)	Generator Television set Wi-Fi Medical AID

NAAC - SELF STUDY REPORT

	General Store Washing Faculty Sports Equipment
--	---

- ❖ Working women's hostel: **No**
- Cafeteria — **Yes**
- Health centre – **Yes**
 First aid, Emergency care facility, Ambulance are available

Qualified doctor	Full time	<input type="checkbox"/>	Part-time	<input checked="" type="checkbox"/>
Qualified Nurse	Full time	<input type="checkbox"/>	Part-time	<input checked="" type="checkbox"/>

- Facilities like
 - Banking: **ATM center Available**
 - Post office : **No**
 - Book shops: **Book Store Available**
 - Transport facilities to cater to the needs of students and staff:
Yes 45 Buses Available to cater to the needs of Students and Staff
 - Animal house: **Not Applicable**
 - Biological waste disposal: **Yes**
 - Generator or other facility for management/regulation of electricity and voltage: **Yes**
 - Solid waste management facility: **No**
 - Waste water management: **Yes**
 - Water harvesting: **Yes**

NAAC - SELF STUDY REPORT

12. Details of programmes offered by the college (Give data for current academic year)

S.I. No	Programme Level	Name of the Programme/ Course	Duration	Entry Qualification	Medium of instruction	Sanctioned/ approved Student strength	No. of students admitted
1	UG	B.Tech-ECE	4 Years	10+2	English	180	180
2	UG	B.Tech-CSE	4 Years	10+2	English	189	180
3	UG	B.Tech-EEE	4 Years	10+2	English	60	39
4	UG	B.Tech-IT	4 Years	10+2	English	60	59
5	UG	B.Tech-CIVIL	4 Years	10+2	English	120	89
6	UG	B.Tech-MECH	4 Years	10+2	English	180	68
7	PG	M.Tech-ECE	2 Years	10+2+4	English	18	06
8	PG	M.Tech-CSE	2 Years	10+2+4	English	36	04
9	PG	M.Tech-EEE	2 Years	10+2+4	English	18	10
10	PG	M.Tech-CIVIL	2 Years	10+2+4	English	24	12
11	PG	M.Tech-MECH	2 Years	10+2+4	English	24	04
12	PG	M.C.A	3 Years	10+2+3	English	60	02

13. Does the college offer self-financed Programmes?

Yes No

If yes, how many?

NAAC - SELF STUDY REPORT

14. New programmes introduced in the college during the last five years if any?

Yes	√	No		Number	06
-----	---	----	--	--------	----

15. List the departments: (respond if applicable only and do not list facilities like Library, Physical Education as departments, unless they are also offering academic degree awarding programmes. Similarly, do not list the departments offering common compulsory subjects for all the programmes like English, regional languages etc.)

Faculty	Departments (eg. Physics, Botany,	UG	PG	Research
Science	---			
Arts	---			
Commerce	---			
Engineering	Department of Electronics and Communication	B.Tech	M.Tech	---
	Department of Computer Science Engineering	B.Tech	M.Tech	---
	Department of Electrical & Electronics Engineering	B.Tech	M.Tech	---
	Department of Information Technology	B.Tech	---	---
	Department of Civil Engineering	B.Tech	M.Tech	---
Technical	Department of Mechanical Engineering	B.Tech	M.Tech	---
	Department of Master of Computer Applications	---	M.C.A	---

16. Number of Programmes offered under (Programme means a degree course like BA, BSc, MA, M.Com...)

- a. annual system
- b. semester system
- c. trimester system

NAAC - SELF STUDY REPORT

17. Number of Programmes with

- a. Choice Based Credit System 03
- b. Inter/Multidisciplinary Approach ---
- c. Any other (specify and provide details) ---

18. Does the college offer UG and/or PG programmes in Teacher Education?

NO YES

19. Does the college offer UG or PG programme in Physical Education?

No

20. Number of teaching and non-teaching positions in the Institution

Positions	Teaching faculty						Non-teaching staff		Technical staff	
	Professor		Associate Professor		Assistant Professor					
	*M	*F	*M	*	*M	*F	*	*	*M	*
Sanctioned by the UGC / University / State Government	-	-	-	-	-	-	-	-	-	-
<i>Yet to recruit</i>										
Sanctioned by the Management / society or	13	02	55	26	83	41	68	30	19	18
<i>Yet to recruit</i>										

***M-Male *F-Female**

NAAC - SELF STUDY REPORT

21. Qualifications of the teaching staff:

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt	-	-	-	-	-	-	-
Ph.D	13	2	0	0	0	0	15
M.Phil	0	0	0	0	6	6	12
PG	0	0	55	26	77	35	205
Temporary teachers							
Ph.D							
M.Phil							
PG							
Part-time teachers							
Ph.D							
M.Phil							
PG							

22. Number of Visiting Faculty /Guest Faculty engaged with the College.

Departments invite eminent professors from IIT, IIIT, NIT regularly and organizes guest lectures for students.

23. Furnish the number of the students admitted to the college during the last four academic years.

Categories	Year1 (2015-16)		Year 2 (2014-15)		Year 3 (2013-14)		Year 4 (2012-13)	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	31	21	54	25	44	20	35	11
ST	1	---	5	---	3	---	4	1
OBC	117	98	179	82	116	66	121	36
General	195	121	210	154	257	168	225	155
Others	22	9	30	7	12	7	12	7

NAAC - SELF STUDY REPORT

24. Details on students enrollment in the college during the current academic year:

Type of students	UG	PG	M. Phil.	Ph.D.	Total
Students from the same state where the college is	615	38	---	---	653
Students from other states of	----	---	---	---	---
NRI students	---	---	----	---	---
Foreign students	---	---	---	---	---
Total	615	38	----	----	653

25. Dropout rate in UG and PG (average of the last two batches)

0.01%

UG

0.01%

PG

26. Unit Cost of Education

(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled)

(a) including the salary component

Rs.54,609

(b) excluding the salary component

Rs.33,351

27. Does the college offer any programme/s in distance education mode (DEP)?

No

✓

28. Provide Teacher-student ratio for each of the programme/course offered

S.No	Name Of The Program B.Tech / M.Tech	Faculty /Student Ratio	
		UG	PG
1	ECE	1:15	1:12
2	CSE	1:15	1:12
3	EEE	1:15	1:12
4	IT	1:20	--
5	CIVIL	1:20	1:12

NAAC - SELF STUDY REPORT

6	MECHANICAL	1:15	1:12
7	M.C.A	--	1:15

29. Is the college applying for Cycle 1

(Cycle 1 refers to first accreditation and Cycle 2, Cycle 3 and Cycle 4 refers to re- accreditation)

30. Date of accreditation* (applicable for Cycle 2, Cycle 3, Cycle 4 and re-assessment only) Not Applicable

31. Number of working days during the last academic year.

255

32. Number of teaching days during the last academic year

(Teaching days means days on which lectures were engaged excluding the examination days)

193

33. Date of establishment of Internal Quality Assurance Cell (IQAC)
IQA02/01/2017(dd/mm/yyyy)

34. Details regarding submission of Annual Quality Assurance Reports (AQAR) to NAAC NA AQAR
Not Applicable (since it is first cycle of accreditation)

35. Any other relevant data (not covered above) the college would like to include. (Do not include explanatory/descriptive information)

CRITERION – I **CURRICULAR ASPECTS**

1.1 Curriculum Planning and Implementation

1.1.1. State the vision, mission and objectives of the institution, and describe how these are communicated to the students, teachers, staff and other stakeholders.

The NRI Institute of Technology, Pothavarappadu was established in the state of Andhra Pradesh in the year 2008 under the patronage of **Sri Durga Malleswari Educational society, Vijayawada**, to provide quality technical education and to promote the research and development activities in Science, Engineering and Technological arenas.

The institution is built in a calm and serene atmosphere, surrounded by lush greenery and is well connected. Ideally located on sprawling 20 acre Mango groves, on Vijayawada – Nuziveedu State Highway, the campus is about 23 KM away from Vijayawada and 22 KM away from Gannavaram Airport.

The institution is affiliated to JNT University, Kakinada and approved by AICTE, New Delhi. NRI Institute of Technology offers B.Tech Courses in six branches of Engineering viz., CSE, IT, ECE, EEE, MECH and CIVIL Engineering. The institute also offers Post Graduate programmes in M.Tech with five specializations viz., Computer Science and Engineering, Digital Electronics and Communication Engineering, Power Electronics and Drives, Structural Engineering, and Thermal Engineering apart from Master of Computer Applications.

All the departments are well equipped with the state-of-the-art equipment, sophisticated laboratories, Computer Centers, with the most contemporary facilities backed by advanced computer systems and the latest software.

VISION:

To evolve as the most preferred educational group with Global recognition as Centre of innovation and excellence, aiming to achieve transformation in education. Inducing profound knowledge in serene environment by synchronizing education with professional ethics and values.

NAAC - SELF STUDY REPORT

MISSION:

To keep in assiduous efforts and transcend our Vision into reality, we are committed with an insight of shaping technocrats into prospective professionals at the cutting edge of industries with competitive advantage.

The Vision and Mission statements communicate explicitly of the immediate emphasis on the development of the cognitive and affective domains to the entrant of the college. The fulfillment of the Vision and Mission are obvious in the objective of the institution.

OBJECTIVES:

- To provide quality education to students
- To empower students to be committed employees or employers
- To work towards holistic development of students inculcating social values and ethics
- To enhance the competency and excellence of teachers
- To promote research and development activities among staff and students
- To serve the community and Nation through extension activities.

The eight Golden Goals framed for every stake holder to achieve are :

- Uncompromising regularity and punctuality.
- Academic excellence.
- Depth in subject and general Knowledge.
- Suitable placement or higher education or entrepreneurship.
- Curiosity of learning, research and development.
- Proficiency in Communication skills.
- Professional values and Social ethics.
- Keeping good health and following good habits.

The apparently ambitious yet very realistic Vision, Mission, Objectives and the Golden Goals are communicated to all the stake holders through the following means:

1. The College hand book records the Vision, Mission, Objectives and the Golden Goals in the first few pages. The Hand Book is issued to all the students and teachers at the beginning of each academic year.
2. The prospective students and their parents come to know about the above through the college prospectus.
3. The global public read the remarkable words as these are posted in the college website.
4. Newsletters published quarterly, carry the significant statements to reiterate the Vision, Mission, Objectives and Goals.

5. Within the college campus, the statements are displayed on boards placed at prominent locations.
6. The fresher's are introduced to the Vision, Mission, Objectives and Goals during the bridge course and orientation program.

1.1.2 How does the Institution develop and deploy action plans for effective implementation of the curriculum? Give details of the process and substantiate through specific example(s)

The College being affiliated to the JNT University, Kakinada, follows the syllabus prescribed by the University.

The university prepares a course structure and syllabi for both UG and PG engineering programs. The course and curriculum details also include the number of contact hours both for theory and laboratory classes. It also includes the number of credits for theory paper and laboratory classes. Based on the syllabus provided by the university, the Institution develops a detailed action plan for effective implementation of curriculum.

However the number of working days and the academic calendar of the college are framed by the Principal in consultation with the Heads of Departments (HoD) to accommodate effective coverage of syllabus, co-curricular and extracurricular activities, aligning with the overall academic calendar of the university.

Each department has set Vision and Mission exclusive for the department, which are aligned with the Vision and Mission of the College. Program Educational Objectives (PEO) and Program Outcomes (PO) are scripted for each program and Course Objectives (CO) and Course Outcomes are defined for each course (theory and lab).

The above are carefully framed to keep in tune with the Vision and Mission of the department and therefore those of the college and also to meet the regulations of National Board of Accreditation (NBA). The overlapping relationship chart (Figur 1.1) shows how the departmental vision and mission, PEOs, POs and COs evolve and interlink with the Vision and Mission of the Institution.

- At the beginning of the semester the course coordinator prepares the lesson plan for their respective subjects.
- As per the scheduled dates of academic calendar, internal/ end semester examinations for students are conducted in each semester.

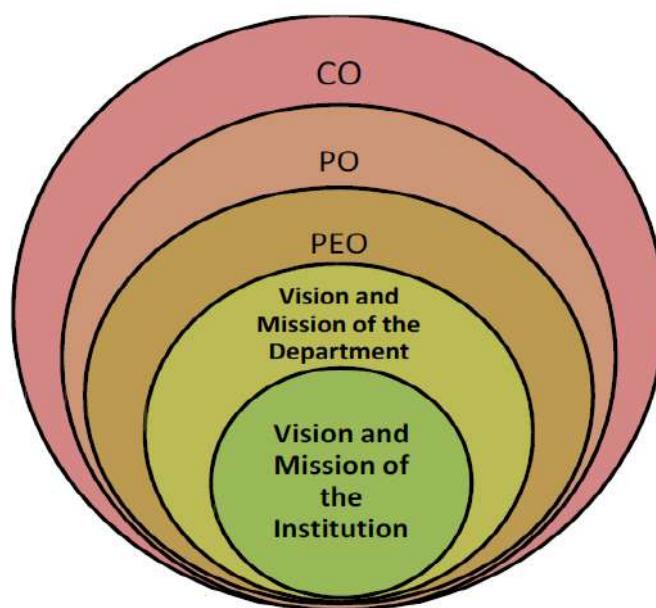


Figure 1.1 : Relationship chart

The development and deployment of processes and action plans for effective implementation of the curriculum are detailed below:

S.No	Nomenclature	Functions	Action Plans
1.	Course Instructor	Plans and delivers the course content	<ul style="list-style-type: none"> • Designing course objectives and outcomes • Mapping COs with Pos • Setting targets for students' performance • Preparing course Plan Identifying delivery modes <p>Doing the ground work for teaching materials and aids Ascertaining content beyond syllabus relevant to the course. Deciding on the assessment modes, Scheduling and executing improvement classes (coaching classes)for slow learners Planning advanced level assignments and projects for advanced learners.</p> <p>Assessing the attainment of outcomes at the end of the course.</p>

NAAC - SELF STUDY REPORT

2.	Course Coordinator	Monitors the course instructors	Working along with and aiding the course instructors to execute the action plans.
3.	Program coordinator	Takes responsibility for the implementation of courses in the module	Guides and oversees the action plans of course instructors and course coordinators and verifies the attainment of COs and POs at the end of the courses.
4.	HoD	Overall In charge for proper functioning of the academic system	Monitors the delivery of courses, achieving outcomes, and designs corrective measures whenever and wherever necessary.

Example : Computer Science and Engineering (CSE) department offers the following courses which are capsuled under the module Computer Science and Engineering :

III Year – I Semester

S.No.	Subject	T (Periods/ Week)	P (Periods/Week)	Credits
1	Compiler Design	4	-	3
2	Data Communication	4	-	3
3	Principles of Programming Languages	4	-	3
4	Data Management Systems	4	-	3
5	Operating Systems	4	-	3
6	Compiler Design Lab	-	3	2
7	Operating Systems Lab	-	3	2
8	Database Management Systems Lab	-	3	2

NAAC - SELF STUDY REPORT

9	Linux Programming lab	-	3	2
10	IPR and Patents-1	2	-	-
11	Seminar	-	-	-
	Total Credits			23

III Year – II Semester

S.No.	Subject	T (Periods/Week)	P (Periods/Week)	Credits
1	Computer Networks	4	-	3
2	Data Ware housing and Mining	4	-	3
3	Design and Analysis of Algorithms	4	-	3
4	Software Engineering	4	-	3
5	Web Technologies	4	-	3
6	Computer Networks Lab	-	3	2
7	Software Engineering Lab	-	3	2
8	Web Technologies Lab	-	3	2
9	IPR and Patents-II	2	-	-
	Total Credits			21

The course-in-charge maintains a course file which contains all the documents necessary for the implementation of the action plans:

NAAC - SELF STUDY REPORT

A sample of the contents of the course file is listed below:

- Course maintenance sheet
- Academic calendar
- Vision and mission of institute
- Vision and mission of department
- Program educational objectives (PEO)
- Program objectives (PO)
- Syllabus/lab cycle
- CO-PO mapping
- List of delivery methods
- Course plan
- Course time table
- Co-Po attainment sheet with proofs
- Instructor report
- Target sheet
- Unit-wise relevant materials including contents beyond syllabus
- Sample university questions papers
- Assignment / tutorial/unit test papers with key
- Sample assignments answer sheet
- Cycle test question papers with key and sample answer sheet
- Slow learners list of every cycle test along with remedial measures
- Model question papers with key
- Consolidated marks sheet
- Answer sheets

The proper documentation of the various process involved is teaching-learning

Process is audited by the ISO Assessment Cell during the semester.

In addition, the following mechanisms are in place for checks and balances.

NAAC - SELF STUDY REPORT

Name of the committee	Constitution	Functions
Program Assessment Committee	Dean/HoD and Senior of the department	Checking the attainments of COs and CO-mapping values of courses offered in Program, submitted the courses in - and compiled by classes in-charge translating the data Measurable parameters.
Department Advisory Committee	Dean/HoD –Convenor Principal – Management Representative Senior Professors of the Department Academician Alumni Representative Industry Representative Parent Representative	Approval of PEOs POs for the year Planning strategies sustained development Modification of and POs based on previous year's

The Department Advisory Committee of the **Computer Science and Engineering** Department is given as an example:

S.No.	NAME	ROLE	DESIGNATION
1.	Dr. C. Naga Bhaskar	Management Representative	Principal
2.	Dr. K.V. Sambasiva Rao	Department Representative	Dean
3.	Mr. N. Veeranjanyulu	Alumni Representative	Student
4.	Sri Nagesh	Industrial Representative	Project Manager, Infosys, Hyderabad

NAAC - SELF STUDY REPORT

5.	Sri D. Rama Krishna	Industrial Representative	Managing Director Effetronics, Vijayawada
6.	Ms. K. Jyothi	Industrial Representative	Cap Gemini, SIPCOT, Chennai
7.	Dr. B.V. Subba Rao	Representative of Professional Bodies	Organizing Secretary Computer Society of India Vijayawada Chapter
8.	Dr. J.V.R. Murthy	Academic Representative	Professor, CSE Dept. JNTUK, Kakinada
9.	Dr. J. Rajendra Prasad	Academic Representative	Professor, PVPSIT, Vijayawada
10.	Sri M. Sankar Prasad	Parent Representative	Bank Employee

Direct involvement of students in assessing the effective planning and delivery of course content is ensured through Class Committee Meetings.

Thus the multi-level appraisal ensures that appropriate methods are developed and deployed for effective implementation of the curriculum.

Industrial visits are arranged to bridge the gap between theoretical knowledge and real life scenario. Vijayawada is well known for automotive and power generation industries. Department of Mechanical Engineering and Electrical Engineering, ECE, CE arrange visits to industries so that the students are exposed to the real world of manufacturing and energy production. Also, many of the final year projects are supported by the industries. Special lectures are conducted by inviting distinguished personalities from eminent Universities/Institutes and Industries.

1.1.3 What type of support (procedural and practical) do the teachers receive (from the University and/or institution) for effectively translating the curriculum and improving teaching practices?

The Institute follows the curriculum prescribed by the Jawaharlal Nehru Technological University, Kakinada. The university prescribes the syllabus, recommends text books, and reference books for ready reference. Required sufficient time are given to the teachers to complete the entire syllabus.

The curriculum is delivered to the students after serious preparation as well as critical thought by the teachers concerned. The institution encourages the faculty to keep themselves updated by enrolling for the refresher courses, FDP, ICT orientation programs and workshops. The college provides books and other teaching and reference material like journals, magazines and software to enable its teachers to ensure effective delivery of curriculum. The Institution supports the process of enhancing the ability of the teachers to effectively implement the curriculum in the following manner.

- Class rooms equipped with ventilation, lighting, fans, AC's, LCD projectors, Computer and sufficient number of tables, chairs based on students' strength.
- The college encourages the faculty to pursue higher studies through the Quality Improvement Programme and to take up research work individually or in collaboration.
- The college also arranges lectures on research methodologies by eminent academicians to promote research activities in the departments and also enrich their delivery of incorporating research aspects of the subjects.
- The college procures textbooks suggested by the faculty members and subscribes to various journals and technical magazines to aid the delivery of the curriculum in an effective manner.
- Center of Excellence for e-resource development and deployment (CoEeRD) has been effectively used to address the changes in learning trends in engineering education.
- Faculty members are encouraged to attend on line Faculty Development Programmes conducted by National Mission on Education through ICT (NME- ICT) in collaboration with IIT Bombay/ IIT Kharagpur.
- Classroom lectures of various courses in the curriculum are supplemented with NPTEL lectures.

- The college takes support from the external sources like IUCEE to improve the faculty and students academically.
- Advanced teaching aids such as smart classrooms, audio and video facilities, technical video resources (video CDs, DVDs) are provided for effective delivery of the subject to the students.
- As part of the Infosys Campus Connect Programme the faculty members receive training and project ideas from the industry experts on emerging technologies.

2. Administrative support:

The institution approves the budget projected by a particular department. All requirements related to procurement of equipment and components to enhance the quality of labs are readily approved by the administration. Besides this all amenities such as electricity backup, water supply, cleanliness and maintenance of campus is accomplished by administration.

3. Faculty Development Program:

Institutional and departmental level FDP for upgrading the technical knowledge of faculty members as per current trends in technology. Institution also deputed faculty for short term courses to enrich their knowledge. It also invites experts from industry and R&D labs to deliver guest lectures on topics of National interest on subject domain. Institution also encourages faculty to take professional membership in ISTE, IEEE, IETE, CSI, CMSI, ACM, IEI, and IIW to enrich their knowledge.

4. Central computing facilities:

The institution has an internet lab with sufficient number of terminals. Besides this, there is a central library which has a number of books, reference books and sufficient volume of journals, technical magazines etc. Apart from this every department has its own library. The institution has a good number of desktops/ laptops available for each faculty to prepare lecture notes, question banks, quiz questions etc.

1.1.4 Specify the initiatives taken up or contribution made by the institution for effective curriculum delivery and transaction on the Curriculum provided by the affiliating University or other statutory agency.

The institution takes all the care for effective delivery of the curriculum provided by the university. The institution is making

NAAC - SELF STUDY REPORT

following efforts to facilitate the faculty for effective curriculum delivery:

- Academic calendar for the entire semester is planned well in advance with the number of contact hours needed for each unit. Committee is constituted by the Institution for planning and execution of course curriculum designed by the university. This committee prepares the details of academic calendar with detailed instructions, dates of examinations and the methodology to assess the student's academic performance.
- Detailed lecture-wise schedule and course material (preferably hand written notes) are prepared by the faculty for the subject allotted to them. Institution encourages the faculty to prepare their own study material, models and charts looking into the needs of the students.
- Modern teaching aids such as LCD projector with computer connectivity, audio-system and microphone provided in most of the classrooms and are supplemented with NPTEL, digital library, video lectures, QEEE lectures. The attendance registers are inspected closely and thoroughly by the head of the department once in a fortnight to check teaching schedules and number of lectures delivered.
- Regular meetings are conducted by the HOD with the faculty members to ensure coverage of topics as per syllabus.
- Faculty are encouraged to pursue Ph.D. programs and/or encouraged to take up research work individually or in collaboration for improving their professional skills. Institution also conducts personality development programs for faculty and students.
- All the faculty members of various departments are encouraged to participate in National / International Conferences, Seminars, Training Programs, and also to organize National / International Conferences. Furthermore, faculty members are encouraged to publish their research findings in National and International journals.
- Study leave is extended to faculty members who wish to pursue Ph.D. programs.

NAAC - SELF STUDY REPORT

- Self-learning mode, modules with Computer Based Training and CDs are available in library which enhances the knowledge bank of the faculty members. Additional initiatives taken by the institution for effective curriculum delivery are listed below:
 1. Virtual labs
 2. Video lectures and presentation with NPTEL
 3. Department Library and a well maintained Central Library with access to e-books and journals of international repute.
 4. Software Development Centre for "*Special Team*" and various Centers established under MoU's with MNC's like IBM, Microsoft, Intel, SAP Labs, Oracle and Tata Technologies provides opportunities to students to get industry relevant trainings and competence building beyond curriculum.
- The institute regularly updates the laboratory facilities to comply with the requirements of the curriculum.
- High speed LAN, Wi-Fi network and high speed internet connectivity is provided to all the students and faculty members across the campus and hostel.
- Students are motivated to undergo internship in various companies during their vacations.
- Students are encouraged to do innovative project work in the new and upcoming technology areas of interest.
- Faculty members and students are encouraged to participate in various technical events conducted in and outside the institute.

The above steps initiated by the institution have yielded good results in effective curriculum delivery by the faculty.

1.1.5 How does the institution network and interact with beneficiaries such as industry, research bodies and the university in effective operationalization of the curriculum?

- The college has set up a Training and Placement cell which maintains professional relations with the representatives of industry. Personalities from reputed industries and academic institutions are invited to the institute for delivering guest lectures and have interaction with the faculty members and students. The HR managers of various companies are invited to the

NAAC - SELF STUDY REPORT

college campus to interact with the students. Reputed industries are conducting campus recruitment drives on a wider scale.

- The college has collaborations with organizations like IBM, Microsoft, Oracle, Infosys, TCS, EMC² and Techmahindra, which help the students for their project work and train them in latest technologies for improving their employability.
- To keep the research component alive in the campus, the faculty members of the college are motivated to take up research projects. Faculty members on their own also keep on interacting with various research bodies and participate in research projects of diverse domains.
- Many of the faculty members are fellows of the professional bodies like IEEE, IETE, ISTE. They are regularly attending conferences, seminars, workshops etc offered by these bodies which in turn helps them in self growth and in disseminating knowledge to students. List is enclosed as Annexure – 1.
- Students are encouraged to take up industry sponsored projects so that they can have interaction with the working professionals in the industry.
- The institute arranges industrial visits for students, so that, the students apart from getting hands on experience of the application of the theory studied by them, also learn about the various standards and skills that the industries expect from them.
- The college apart from financing projects, also actively encourages its faculty to apply/ obtain funded projects from various bodies such as AICTE, DST etc. This facilitates a constant interaction between research bodies and the college.
- Many of the departments provide curriculum feed back to the University. Hence, there is a continuous interaction between the faculty members of the institute and the university.
- Soft skills training programs are conducted in each semester to enhance the employability of the students.

1.1.6 What are the contributions of the institution and/or its staff members to the development of the curriculum by the University? (Number of staff members/departments represented on the Board of Studies, student feedback,

teacher feedback, stakeholder feedback provided, specific suggestions etc.)

Being an affiliated institution, the programme curriculum is framed by JNTUK. The syllabus undergoes modification from time to time in line with technological advancements. The University appoints several faculty members as members of Board of Studies /Syllabus committee / Syllabus revision committee. Once in three years the chairman of Board of Studies (BoS) calls for a meeting to bring changes in curriculum. The BoS includes JNTUK nominated members and representation from the industries. Suggestions from the affiliated colleges are invited to design the new curriculum. The University prepares the draft copy of the syllabus and sends it to the institutes. The syllabus is given to the respective faculty members. Suggestions from the departments are sent to the University. BoS meeting is held to finalize the syllabus which is then circulated to the colleges.

1.1.7 Does the institution develop curriculum for any of the courses offered(other than those under the purview of the affiliating university)by it ? If yes, give details on the process(Needs Assessment, design, development and planning) and the courses for which the curriculum has been developed.

No. The institution is affiliated to Jawaharlal Nehru Technological University, Kakinada. As affiliated institution, the curriculum is adhered to and syllabus prescribed by the University. However, as an opinion for changes in syllabus, modifications are suggested . Projects, industrial visits, guest lectures, workshops, faculty development programs, participation in seminars, symposium, National and International conferences by faculty and students are conducted by the institution. Add-on courses, conduct of soft skills programs, technical skills programs like CIPET, QEEE programs offered by IIT, Madras are some of the efforts to supplement the gap in teaching-learning process and add value to the existing courses.

1.1.8 How does institution analyze /ensure that the stated objectives of curriculum are achieved in the course of implementation?

All the academic programs although developed by the

University are in line and in tune with the institutional goals and objectives. The curricula, prepared by the university, is delivered in consultation with the academicians and technical experts selected from industry, keeping in view the requirements of both the industry and society. This enables the graduates of NRIIT to fulfil the demands of the competitive market for employability both at national and international level.

In addition to the examinations conducted by the university, continuous evaluation of the students is the method adopted by the institute to ensure that the objectives of the curriculum are achieved. The process involves:

- Two Internal assessment tests are conducted during the semester
- Assignments are given to improve their analytical and problem solving skills
- Quiz based on the topics of the course is conducted.
- Subject proficiency test (Objective type questions) is conducted to test the level of proficiency in a given course for students.
- Course Seminars are conducted for every subject where the students have to, effectively present on the given topic and submit the seminar reports.
- Feedback from the current students and alumni
- Feedback from the industries where the students are undergoing internship and carrying out the projects
- Feedback from employers
- The Heads of the departments periodically review the progress in the syllabus and also the performance of the students.
- A regular feedback from the above, is used to assess the extent to which the Program Objectives are met. The important bodies of the institute such as governing body and academic committees take necessary corrective actions.

1.2 Academic Flexibility

1.2.1 Specifying the goals and objectives give details of the courses etc., offered by the institution.

To make the students placement ready, the institute is associated with organizations viz., INFOSYS, EMC², Microsoft, Oracle Academy, APGENCO, Kusalava International Ltd., Efftronics and

NAAC - SELF STUDY REPORT

APSSDC. Students are offered B.Tech., programme in CIVIL, EEE, ECE, CSE, MECHANICAL and IT streams. M.Tech., in Structural Engineering, Software Engineering, Power Electronics and Drives, Digital Electronics and Communication System, Thermal Engineering and M.C.A.

Also students are enriched with skill development programmes offered to meet the present day job market challenges like acquiring Microsoft certification, Oracle certification, DB2 certification, Autodesk Certification, Bentley Certification, Matlab Certification, programmes are conducted in the college and students are encouraged to acquire certifications from these companies which give edge to them during their job search.

1.2.2 Does the institution offer programmes that facilitate twinning /dual degree? If “yes”, give details.

No

1.2.3 Give details on the various institutional provisions with reference to academic flexibility and how it has been helpful to students in terms of skills development, academic mobility, progression to higher studies and improved potential for employability. Issues may cover the following and beyond:

- **Range of Core / Elective options offered by the University and those opted by the college**
- **Choice Based Credit System and range of subject options**
- **Courses offered in modular form.**
- **Credit transfer and accumulation facility**
- **Lateral and vertical mobility within and across programmes and courses**
- **Enrichment courses**

Placement training, Communication skills training and skill development training sessions are conducted to the enrolled students. Soft skills training classes are included in the regular class time table itself. These training sessions are conducted in addition to the prescribed curriculum. This improves the employability of students. Institute also conducts special training classes for GERMAN LANGUAGE, GATE etc.,

The Institute has a separate system to support the students appearing for various campus recruitment tests for placements. Students who are interested and willing to appear competitive examinations are trained by faculty members from the Training and placement department. Students can appear for online examinations using

NAAC - SELF STUDY REPORT

internet facilities at our institution. Awareness programmes regarding this are given. Study material in the form of e-books for entrance test like GATE is provided in the digital library of the college.

Range of Core / Elective options offered by the University and those opted by the college

In compliance with the curriculum of the Jawaharlal Nehru Technological University, Kakinada; the students must register for all the core subjects prescribed. All the students have the choice of selecting elective Subjects from the list of subjects offered by the University. The elective subjects offered are based on the latest technological trends and industrial needs so that at the end of the programme, the student will be conversant with those advanced topics and be ready to meet the needs of the industry. The following table shows the number of core and electives courses offered. For each of the elective subjects, the students have a range of 5 to 6 subject choices for all the programs offered. Along with the core and elective papers 2 - 4 labs in R13 are mandatory for each programme. For example, the table below gives the range of electives available in the JNTUK syllabus and those offered by the department of Computer Science and Engineering.

Electives Offered by the University	Electives opted by the College
Elective I Software Testing and Methodologies Simulation and Modeling Information Retrieval Systems Artificial Intelligence Multimedia Computing Computer Architecture Elective II Digital Forensics Cloud and Big Data Software Project Management Machine Learning Advanced Databases Elective III	Elective I Software Testing and Methodologies Elective II Cloud and Big Data Elective III Human Computer Interaction

NAAC - SELF STUDY REPORT

Human Computer Interaction Advanced Operating Systems Mobile Adhoc & Sensor Networks Pattern Recognition Digital Image Processing Elective IV Embedded and Real Time Systems Neural Networks & Soft Computing Social Networks & the Semantic web Parallel computing E-commerce	Elective IV Social networks and the semantic web
---	--

R13

Program	Semester/year	Core, Laboratory & Elective Paper
CSE	1 st semester	6(T), 4(P)
	2 nd Semester	6(T), 3(P)
	3 rd Semester	7(T), 3(P)
	4 th Semester	7(T), 3(P)
	5 th Semester	7(T), 2(P)
	6 th Semester	7(T), 2(P)
	7 th Semester	4(T), 2(P), 2(E)
	8 th Semester	1(T), 3(E), Project
ECE	1 st semester	6(T), 4(P)
	2 nd Semester	6(T), 3(P)
	3 rd Semester	6(T), 2(P)
	4 th Semester	6(T), 2(P)
	5 th Semester	6(T), 3(P)
	6 th Semester	5(T), 3(P), 1 seminar
	7 th Semester	4(T), 2(E), 2(P)
	8 th Semester	2(T), 2(E), 1 Project
	1 st semester	6(T), 4(P)
	2 nd Semester	6(T), 3(P)

NAAC - SELF STUDY REPORT

EEE	3 rd Semester	6(T), 2(P)
	4 th Semester	6(T), 2(P)
	5 th Semester	7(T), 2(P)
	6 th Semester	6(T), 2(P)
	7 th Semester	3(T), 2(E),3(P)
	8 th Semester	1(T), 3 (E), Project
Mechanical	1 st semester	6(T), 3(P)
	2 nd Semester	6(T), 4(P)
	3 rd Semester	6(T), 2(P)
	4 th Semester	5(T), 3(P)
	5 th Semester	7(T), 2(P)
	6 th Semester	6(T), 1(E), 1(P)
	7 th Semester	4(T), 1(OE), 1(E), 1(S), 1(P)
	8 th Semester	2(T), 2(E), 1 Project
IT	1 st semester	6(T), 4(P)
	2 nd Semester	5(T), 4(P)
	3 rd Semester	5(T), 3(P)
	4 th Semester	5(T), 3(P)
	5 th Semester	5(T), 3(P)
	6 th Semester	5(T), 3(P)
	7 th Semester	3(T), 2 (E), 4(P)
	8 th Semester	3(T),1(E), Project
Civil	1 st semester	6(T), 3(P)
	2 nd Semester	6(T), 3(P)
	3 rd Semester	6(T), 2 (P)
	4 th Semester	6(T), 3 (P)
	5 th Semester	6(T), 2(P)
	6 th Semester	5(T), 1(E) ,2(P)
	7 th Semester	4(T), 2 (E), 2 (P)
	8 th Semester	1(T), 3 (E), Project
	1 st semester	5(T), 3(P)
	2 nd Semester	5(T), 2(P)

NAAC - SELF STUDY REPORT

MCA	3 rd Semester	5(T), 2(P)
	4 th Semester	3(T), 2(P),2(E)
	5 th Semester	3(T), 2(P),2(E)
	6 th Semester	Project
M.Tech (CSE)	1 st semester	5 (T), 2 (P)
	2 nd Semester	5 (T), 2 (P)
	3 rd Semester	Project
	4 th Semester	Project
M.Tech (DECS)	1st semester	6 (T), 1 (P)
	2nd Semester	6 (T), 1 (P)
	3rd Semester	Seminar, Project
	4th Semester	Seminar, Project
M.Tech (Structural Engineerin)	1st semester	6(T), 1(P)
	2nd Semester	6(T), 1(P)
	3rd Semester	Project
	4th Semester	Project
M Tech (Power Electronics and Drives)	1st semester	6(T), 1(P)
	2nd Semester	6(T), 1(P)
	3rd Semester	Project
	4th Semester	Project
M.Tech (Thermal Engineering)	1 st semester	4 (T), 2(E), 1(P)
	2 nd Semester	4 (T), 2(E), 1(P)
	3 rd Semester	1(S), 1 PROJECT PART -1
	4 th Semester	1 (S), 1 PROJECT PART -2

Choice Based Credit System and range of subject options

As per affiliating University, JNTU Kakinada, Choice based credit system is not possible. Syllabus is framed in semester based credit system. Choice of elective from the elective list can be chosen by the students.

Courses offered in modular form

Almost all the courses / syllabi are in modular form.

Credit transfer and accumulation facility

No

Lateral and vertical mobility within and across programmes and courses

No. The students are given freedom to work in multi disciplinary projects. The institute provides academic flexibility to the students in terms of undertaking projects in allied departments and also in industries/ research organizations, thereby encouraging inter-disciplinary oriented work and also many of the practically relevant work with reference to the industry. They enhance their academic and employment skills through the following:

- Additional lecture hours introduced for problem oriented and difficult subjects
- Guest lectures given by eminent persons in emerging areas from industry and also from reputed universities in India and abroad
- Mini projects and industry based final year projects
- Seminars by students
- Industrial visits and industrial tours
- Topics beyond curriculum
- Performing additional experiments (than prescribed in the syllabus)

Enrichment courses

Every department offers aptitude classes that enable the students to attend campus interviews with ease. Further the Training & Placement department offers guidelines on group discussions, personal interviews etc., Also, the department of Humanities and Social Sciences has set up a lab in collaboration with Globerena Technology solutions to improve the employability oriented skills of the students. The placement cell periodically hosts mock placement tests /interviews with experts from the industry and gives their feedback to the respective student departments. Enrichment courses conducted are :-

- Pre-placement training for final year students
- Conducting courses related to the subjects beyond the curriculum. Ex. Programming in JAVA, .net etc, are conducted beyond the college hours.
- The institute has industry-institute partnership cell

NAAC - SELF STUDY REPORT

(IIPC). Certification courses are conducted by IIPC where the personalities from the industry provide training to the students. Presently, interested students of Mechanical engineering department and Computer Science engineering department are undergoing training by IBM, Microsoft, Oracle, Tata Technologies, Intel and SAP Labs.

Further, the students are offered assistance and support for preparation for GATE, GRE, TOEFL, CAT and GMAT exams by the faculty members even beyond working hours to ease their passage into higher studies. Academic enrichment is obtained as in core option.

Skill development:

- Soft skill training is given to the students by the Internal Faculty right from 2nd year. In turn with the growing importance of soft skills, the college arranges training to the students from 2nd year onwards by Internal training & expert trainers from market.
- Along with regular subjects, exclusive sessions are conducted for a week or two to impart training in quantitative aptitude, reasoning ability, verbal ability and soft skills.
- Government of Andhra Pradesh established a Nodal Centre for Skill Development at NRIIT. This centre trains the students in technologies that help them find employment.

1.2.4 Does the institution offer self-financed programmes? If “yes”, list them and indicate how they differ from other programmes, with reference to admission, curriculum, fee structure, teacher qualification, salary etc.

All courses offered by college are self financed programmes.

Admission: Keeping the employment potential of these courses in view, proven merit is the main consideration in the eligible candidates. The eligible candidates are interviewed to assess their creativity and innovative skills. Self-Financed Programmes offered by the Institution are:

NAAC - SELF STUDY REPORT

Course	Intake
B.Tech (Civil Engineering)	120
B.Tech (Computer Science and Engineering)	180
B.Tech (Electronics and Communications Engineering)	180
B.Tech (Electrical and Electronics Engineering)	60
B.Tech (Information Technology)	60
B.Tech (Mechanical Engineering)	180
M.C.A (Master of Computer Applications)	60
M.Tech (CSE)	36
M.Tech (Thermal Engineering)	24
M.Tech (DECS)	18
M.Tech (Power Electronics and Drives)	18
M.Tech (Structural Engineering)	24

Admission Process: The admission process is based on the policies and guidelines provided by Government of AP. The process of admissions to all the programs offered by the institution are controlled by the Government of Andhra Pradesh and totally transparent.

UG Programme

(i) Category – "A"

The EAMCET convener (Govt of A.P.) fills up 70% of the seats in the Institute by allotting the candidates to this institute on the basis of their choice, their EAMCET ranks and the reservation policy of the Govt. of Andhra Pradesh, with 75% weightage to the Common Entrance Test, 25% weight-age to the marks obtained at the qualifying examination, Viz., the intermediate examination.

(ii) Category – "B"

The remaining 30% of the seats are filled up by the Institute under the Management / NRI quota as per the guidelines given by the APSCHE and the Govt. of Andhra Pradesh for this purpose.

(iii) Lateral Entry

The convener of ECET admits 20% of the sanctioned intake for each program for admission directly into the II

NAAC - SELF STUDY REPORT

year of the 4-year B.E/B.Tech program from among the Diploma holders, based on their rank in ECET, their choice of the institute and the reservation policy of the Govt. of Andhra Pradesh, under the lateral entry scheme.

PG Programme

(i) Category – "A"

The PGECET convener fills up 70% of the seats in the Institute by allotting the candidates to this institute on the basis of their choice, their PGECET/GATE ranks and the reservation policy of the Govt. of Andhra Pradesh.

(ii) Category – "B"

The remaining 30% of the seats are filled up by the Institute under the Management / Sponsored quota as per the guidelines given by the APSCHE and the Govt. of Andhra Pradesh for this purpose.

The details of admissions made into the institution by government of A.P. are displayed on their website and also on the college website.

Curriculum: The curriculum is designed by JNTU Kakinada to which the college is affiliated. These new age courses have a sound, well-charted curriculum specially designed to meet the requirements of competitive scenario.

Fee Structure: For all the courses, both category A and Category B seats, the fees will be as fixed by the Admission and Fee Regulatory Committee constituted by Government of Andhra Pradesh

Teacher Qualifications and Salary: Well qualified and meritorious candidates with good research potential are appointed on regular basis as per State Government and AICTE norms to teach the specialized courses and give a boost to research activities.

Salary: Salaries are paid as per AICTE norms.

1.2.5 Does the college provide additional skill oriented programmes, relevant to regional and global employment markets? If "yes" provide details of such programme and the beneficiaries.

Yes, the institution provides additional skills orientation

NAAC - SELF STUDY REPORT

programs like value added courses that are relevant to the local and global employment market. Institution provides programs like:

- C Programming
- Personality development Program
- MATLAB
- Networking
- Managerial skill development program
- Aptitude development program
- SAP Training
- Autodesk Training
- Bentley Certification
- CNC Programming
- Android training program
- Quantitative, logical and analytical skill development programs
- Industrial visits and Internships
- Project exhibitions
- Poster Presentations

All departments of the institute conduct lectures delivered by experts from various industries and research organizations. This makes the students aware in terms of novel technologies and latest developments in research. These programs offered by the institution are found to be useful for the students and make them more employable both in the National market and International Market.

Some of the Soft skills development programmes organized by the some of our departments are :

Sl.No	Year	Department	Details of the Program Conducted	Beneficiary	Resource Person / Program Conducted by
--------------	-------------	-------------------	---	--------------------	---

NAAC - SELF STUDY REPORT

1	24/02/2012	ECE	One Day Work Shop On Vlsi & Embedded Systems	Future Challenges to meet to design low power high performance circuits & To provide knowledge and skill to appreciate rapid change in scenario in Embedded System	Dr.M.B.SRINIVAS, Professor & Dean, Bits , Hyderabad campus
2	08/10/2012	ECE	Robotryst-2013	To learn the programming on Robo arm etc.	Mr. Uma Shankar Yadav and Mr.Nitish Bhardwaj
3	01/03/2013	ECE	A 2-Day Workshop on VHDL	Programming Concepts using VHDL Verilog, Introduction to FPGA	MCN Technology
4	29/06/2013	ECE	Inaugural of IETE Student Forum	Participation in meeting with R&D, Review of technical papers access through IETETIC	Dr.M.Kama Raju, Professor & HOD ECE, Gudlavalleru Engineering College, Gudlavalleru
5	29/06/2013	ECE	Guest Lecture on "Advances in VLSI Design" & Challenges"	Future Challenges to meet to design low power high performance circuits	Dr.M.Kama Raju, Professor & HOD ECE, Gudlavalleru Engineering College, Gudlavalleru

NAAC - SELF STUDY REPORT

6	29/06/2013	ECE	Faculty Interaction Programme	Scope in different areas of research	Dr.M.Kama Raju, Professor & HOD ECE, Gudlavalleru Engineering College, Gudlavalleru
7	05/07/2014	ECE	Guest Lecture on Trends in VLSI Design and DSP-VLSI Architectures	Implementation of new programming concepts in DSP-VLSI Architecture	Dr.N.S.Murthy, Professor, ECE Department, NIT Warangal
8	07/02/2015	ECE	International Workshop On Humanoid Duties	Multi Disciplinary firm with human computer organization, Activities on Robotics and Design	Mr.Anurag Thivari, Research Associate, Robospecies Technologies Pvt.Ltd.
9	12/08/2015	ECE	Two Day Workshop On Low Power VLSI using Tanner EDA	Software provides complete integrated analog design flow that is Flexible and easy to use	Mr.S.Manoj & T.Sundar
10	07/07/2016	ECE	Three Day Workshop On "PCB Design"	To learn PCB design and implementing	Prof .U.Kumar, Design Engineer, Silicon Touch Technologies, Vijaya wada

NAAC - SELF STUDY REPORT

11	21/09/2016	ECE	Three Day Workshop On “Embedded Sysytems”	To provide knowledge and skill to appreciate rapid change in scenario in Embedded Systems	Mr.Govind Rao,Director , Microlink
----	------------	-----	---	---	---------------------------------------

Sl.No	Year	Department	Details of the Program Conducted	Beneficiary	Resource Person / Program Conduct
1	23/08/2013	EEE	Seminar on Advanced Power Systems	II,III,IV EEE M.Tech students	B.P Singh
2	30/01/2014	EEE	Seminar on Renewable Energy Sources	III,IV EEE students	Sri. Kamaraju
3	08/08/2014	EEE	Seminar on Advanced Power Electronic Drives	III,IV EEE, M.Tech students	Smt.Surya Kalavathi
4	17/12/2015	EEE	Work shop on MATLAB/SIMULINK	IV EEE,M.Tech students	V. Naresh
5	15/04/2016	EEE	Work Shop on Supervisory Control	III,IV EEE, students	G.Vinod Kumar

Sl.No	Year	Department	Details of the Program Conducted	Beneficiary	Resource Person / Program Conducted by
1	2016	CSE	Hadoop and Big Data	Students	Mr. Veer Anjaneya Nagaraju, Big Data Minds / CSE
2	2016	CSE	Special lecture on Graph Theory	Students	Mr. V. Sudhakar, / CSE

NAAC - SELF STUDY REPORT

3	2016	CSE	Entrepreneur / IOT Developer ORL Industries	Students	Madhu Parvathaneni / CSE
---	------	-----	---	----------	--------------------------

Sl.No	Academic Year	Dept	Details of activity	Beneficiary	Name of the Speaker
1	2016-17	IT	3 days Workshop on Hadoop and Big Data Analytics	IT STUDENTS	Mr.Veer Anjaneya Nagaraju, Big Data Minds
2	2016-17	IT	Special lecture on Graph Theory Applications	IT STUDENTS	Mr.V.Sudhakar,HOD Information Technology
3	2016-17	IT	3 days Workshop on Hadoop and Big data analytics	IT STUDENTS	Madhu Parvathaneni Entrepreneur / IOT Developer ORL Industries
4	2016-17	IT	Seminar on Data Fusion in Big Data	IT STUDENTS	Mr.B.B.K.Prasad
5	2016-17	IT	Decision Support Systems	IT STUDENTS	Dr. K.V. Sambasiva Rao,DEAN
6	2015-16	IT	Seminar on SAP	IT STUDENTS	R. Mohan, Cronux Technologies, Hyderabad
7	2015-16	IT	Leadership Qualities	IT STUDENTS	Dr. V. Suryanarayana, HOD
8	2015-16	IT	Seminar on Malware Technology	IT STUDENTS	Mr.Sai Sateesh.Ch
9	2015-16	IT	Software Engineering	IT STUDENTS	Dr. V. Suryanarayana,HOD
10	2015-16	IT	Industry Requirements	IT STUDENTS	Dr. K.V. Sambasiva Rao, DEAN

NAAC - SELF STUDY REPORT

Sl.No	Year	Department	Details of the Program Conducted	Beneficiary	Resource Person / Program Conducted by
1	2012-2013	MECHANICAL	Hands on Training of AutoCAD	IV YEAR ME STUDENTS	Mr.B.Prasad /NRIIT
2	2013-2014	MECHANICAL	Hands on Training of AutoCAD	IV YEAR ME STUDENTS	Mr.B.Prasad /NRIIT
3	2015 - 2016	MECHANICAL	Career Prospectus through	III YEAR ME STUDENTS	Mrs.Ch.Navata / NRIIT
4	2015 - 2016	MECHANICAL	Career Opportunities for	IV YEAR ME STUDENTS	Mr.Jamindar Buddiga /NRIIT
5	2015 - 2016	MECHANICAL	Importance of AutoCAD to a Mechanical	II YEAR ME STUDENTS	Mr.K.Abhishek/NRIIT
6	2015 - 2016	MECHANICAL	Study of Mechanical Vibrations in various	IV YEAR ME STUDENTS	Dr.K.Meerasaheb/NRIIT

Sl.No	Academic Year	Dept	Details of activity	Beneficiary	Name of the Speaker
1	2016-17	MCA	3 days Work shop on Hadoop and Big Data Analytics	MCA STUDENTS	Mr.Veer Anjaneya Nagaraju, Big Data Minds
2	2016-17	MCA	Special lecture on Graph Theory Applications	MCA STUDENTS	Mr.V.Sudhakar,HOD Information Technology
3	2016-17	MCA	3 days Work	MCA	Madhu Parvathaneni

NAAC - SELF STUDY REPORT

			shop on Hadoop and Big data analytics	STUDENTS	Entrepreneur / IOT Developer ORL Industries
4	2016-17	MCA	Seminar on Data Fusion in Big Data	MCA STUDENTS	Mr.B.B.K.Prasad
5	2016-17	MCA	Decision Support Systems	MCA STUDENTS	Dr. K.V. Sambasiva Rao,DEAN
6	2015-16	MCA	Seminar on SAP	MCA STUDENTS	R. Mohan, Cronux Technologies, Hyderabad
7	2015-16	MCA	Leadership Qualities	MCA STUDENTS	Dr. V. Suryanarayana, HOD
8	2015-16	MCA	Seminar on Malware Technology	MCA STUDENTS	Mr. Ch .Sai Sateesh
9	2015-16	MCA	Software Engineering	MCA STUDENTS	Dr. V. Suryanarayana,HOD
10	2015-16	MCA	Industry Requirements	MCA STUDENTS	Dr. K.V. Sambasiva Rao, DEAN

These programmes are conducted with aim to ensure that the students are adequately skilled and are industry ready. While designing these additional programmes it is ensured that they suit the global employment market demands as well as the local demands.

1.2.6 Does the University provide for the flexibility of combining the conventional face-to-face and Distance Mode of Education for students to choose the courses/combination of their choice” If “yes”, how does the institution take advantage of such provision for the benefit of students?

No. The institution is affiliated to Jawaharlal Nehru Technological University, Kakinada and there is no provision for flexibility of combining the distance mode of education and conventional face-to-face education for students.

1.3 Curriculum Enrichment

1.3.1 Describe the efforts made by the institution to supplement the University's Curriculum to ensure that the academic programmes and Institution's goals and objectives are integrated?

The JNT University curriculum is followed by NRIIT. Any new development taking place in industry/society is brought to the notice of the students and help students to be aware of the current day advances in the subjects. To build the competencies of the students, NRIIT emphasizes on nurturing the total development of the students along with excellence in their academic performance. To achieve these goals and objectives, the institution has evolved additional inputs in the syllabi. The institution supplements the university curriculum by conducting various academic programs to achieve the institution's goals and objectives. These are:-

- Guest/ Expert Lectures
- Value added and skill development programs
- Co-curricular activities like paper presentation, projects, quizzes organized for the benefit of the students
- Conduct of workshops and seminars
- Coverage of topics beyond the syllabus
- Conduct of additional experiments in laboratory classes
- Training in soft skills, quantitative, logical and analytical skills
- Training the students in computer based subjects
- Skill development programmes
- Certification training programmes
- Guest/ Expert Lectures
- Field and industrial visits
- Personality development programs
- Video Lectures of NPTEL and QEEE
- Online journals and digital library
- Internships

1.3.2 What are the efforts made by the institution to modify, enrich and organize the curriculum to explicitly reflect the experiences of the students and cater to needs of the dynamic employment market?

NAAC - SELF STUDY REPORT

The training and placement cell of the college regularly interacts with the HR managers of companies and collects information about the demands and expectations of the corporate sector regarding skill set of students. College organizes the campus connect program in collaboration with Infosys, so that students can map out their theoretical knowledge into practical implementation. Alumni feedback is taken periodically to understand the emerging market trend.

The institution has taken measures to cater to the global market needs based on the true assessment of strengths and services offered on the campus. Brain storming sessions are conducted by the faculty members to design the tools in the areas of Spoken English, use of computers and providing in-depth knowledge in the respective subjects. Special training and tailor made orientations are conducted to enable the students to achieve the global standards. The College is completely computerized from the administration to the academic levels. Computer labs are well equipped with latest computers. Internet facility is made available at the library. Computers, LCD Projectors have been used for effective communication and teaching.

1.3.3 Enumerate the efforts made by the institution to integrate the cross cutting issues such as Gender, Climate Change, Environmental Education, Human Rights, ICT etc., into the curriculum?

The institution is a co-educational institution and boys and girls are encouraged to work together in various activities.

Gender Sensitization: Panel Discussion on Women's Rights, Women Empowerment through Higher Education, Seminars on Gender Equity are organized to create awareness about Gender issues and promote gender equity. There is no discrimination among boys and girls in various committees constituted by the institute. This holistic approach has led to increased opportunities in employment and entrepreneurial development among the students. There is a woman empowerment and grievances and redressal cell headed by a senior woman faculty. Both boys and girls together participate in tree plantation, medical camps, blood donation camps etc.

Climate Change, Environmental Education : Students are offered environmental science in engineering as a subject. The main objective of this course is to learn and preserve the nature. Institution is keen in

maintaining environmental conditions by creating rain water harvesting, tree plantation, clean environment and Swach Bharat.

Human rights: Anti-Ragging cell, Women Grievance Redressal Cell are active in the college campus. Professional Ethics and Human Values are taught as a subject in the college.

ICT: The College has state-of-the-art infrastructure for imparting computer training. ICT is used in the curriculum of all courses and classes. This foundation of computers and technology training makes the students a part of global information system and enhances their employability

Apart from this, the institution takes necessary steps in the form of conducting quiz, debate and poster competition on the issues like Gender sensitization, Climate Change, Environmental Education, Human Rights, and ICT etc. Every department is responsible for conducting these types of events from time to time.

1.3.4 What are the various value-added courses/enrichment programmes offered to ensure holistic development of students?

- **Moral and ethical values**
- **Employable and life skills**
- **Better career options**
- **Community orientation**

Moral and Ethical Values:

The students are being taught about the moral, ethical and behavioural values through soft skills classes on topics like Constitution of India and Professional Ethics through talks by distinguished persons in these fields. Further, discipline and punctuality etc. are inculcated in to their minds by the faculty.

Employable and Life Skills:

As communication skill is necessary for employment, the institute takes extra care for the development of communication skills of the students through personality development programs, group discussion, pre placement training, debate, Essay writing competition etc. Students are also allotted different responsibilities in organizing various events and activities such as cultural programmes, competitions, seminars workshops etc. This way they improve

NAAC - SELF STUDY REPORT

their team building and organizational skills. Institution also organizes entrepreneur development program and intellectual property rights awareness program. Students are encouraged to participate and learn photography, choreography, drawing and yoga. Workshops are organized in the institute on yoga and life style and, stress management by qualified professionals.

Better career options:

Various multidisciplinary, advanced technologies, industry relevant training programmes are conducted by various centres of excellence established in the college in collaboration with multinational companies like IBM, Oracle, Microsoft, SAP Labs, Intel and Tata Technologies and Mentorship Programmes for Core subjects. Guest lectures are arranged. Additional courses are also offered.

Community orientation:

The institute has NSS wing. NSS camps are organized for the students every year. Social issues and plantation of trees are given importance during the camps. Blood donation camp is organized by the departments. The students come forward and donate blood for the benefit of the needy.

Tree plantation:

More than 2500 Tree Saplings were planted in the Campus and also in the neighbouring village. Institution has identified Kanasanipalli village and Kanasanipalli ZPP school near to the institution wherein the faculty and students educate the villagers with regard to clean environment, drinking purified water, sanitation etc, in order to improve the living standards of villagers. The PG students sometimes handle classes in the nearby schools by giving day to day examples from engineering and science.

1.3.5 Citing a few examples enumerate on the extent of use of the feedback from stakeholders in enriching the curriculum?

The college networks with its stakeholders to collect and document responses on the curriculum from the stakeholders. The students express their opinion on curriculum through response sheets/ feedback. Feedback from Parents on curriculum, placement, trends and teaching methodology is obtained during Parent-Teacher Meeting sessions.

Responses on curriculum are also collected from Alumni, peers, and industry. The IQAC analyses feedback and prepares response chart for future use by the Principal. The feedback thus obtained is communicated to the University for Appropriate Action. Also at the

NAAC - SELF STUDY REPORT

department level, we have framed Programme Educational Objectives (PEO) and Programme Outcomes (PO). Every year Department Advisory Committee (DAC) committee meeting is held to discuss about the fulfillment of the PEO, PO based on university results and the feedback received from students of various batches and the stakeholders. The various types of feedbacks collected in our college are:

Alumni Feedback: Every year institute organizes Alumni Meet in which feedback is collected to enrich the curriculum.

Current Students Feedback: In the middle of the semester and at the end of each semester, online feedback from every student is taken. These feedback are discussed in the staff meetings in the departments and suggestions based on these are given to the staff members.

Employers Feedback: Feedback is collected from the Industry Experts and Employers during the interactions held with them.

Governing Council: Regular Governing Council meetings are held in the Institute and many points are discussed and approved.

1.3.6 How does the institution monitor and evaluate the quality of its enrichment programmes?

The institution monitors and evaluates the quality of its programmes by committees such as planning and monitoring. The roles of the committees are outlined below.

Planning Committee

The committee has members from various departments. It frames the procedure for every activity of our college. The following are the tasks done by planning committee.

- Curriculum implementation
- Internal assessment
- Framework for laboratory
- Plan for academic events such as internal and external symposia,
- Conferences, project expo, teachers' day, alumni meet, sports day,
- Success meet, Annual day etc

Monitoring Committee

The institution has a Monitoring Committee that ensures regular Academic audit of the following:

- Syllabus coverage
- Unit completion
- Attendance
- Monitoring the performance of slow learners
- Special assignment
- Lecture notes
- Personal log book
- Department activities
- Internal Marks calculation
- Slip Test Monitoring

1. 4 Feedback System

1.4.1 What are the contributions of the institution in the design and development of the curriculum prepared by the University?

The institution is affiliated to the JNTU, Kakinada. The curriculum and syllabi is designed and developed by the University. Based on the feedback received from the alumni and stakeholders the institution consolidates the feedback and forward to the university for consideration in developing the curriculum. The university also conducts meetings regularly and obtain opinion of teachers in the subject to formulate the course curriculum and syllabi. University also invites faculty to participate in workshops for curriculum development.

1.4.2 Is there a formal mechanism to obtain feedback from students and stakeholders on Curriculum? If “yes”, how is it communicated to the University and made use internally for curriculum enrichment and introducing changes/new programmes?

Yes. The college obtains feedback from the students, alumni, parents and employers.

- **Students:** Any difficulties expressed by the students are noted and the same is duly communicated to the university either through the senior faculty who are members in the various boards of studies/syllabus committees etc. or forwarded to the university when suggestions are invited during syllabus revision.
- **Alumni:** The alumni of the college who have moved on to industry or for higher studies also give a feedback on

NAAC - SELF STUDY REPORT

how their years in the institution have helped them perform in their places of work/study. The alumni also give constructive suggestions on helping the students achieve greater focus and improving themselves.

- **Parents:** The parents' meet conducted by college every semester apart from other issues enables parents to give suggestions regarding the curriculum of their wards.
- **Employers/ Industries:** Representatives of various industries give extremely useful feedback regarding the employability of the students and also their expectation from the students during the placement. These are noted and informed to the BoS.

The opinion of these stakeholders is communicated to the university authorities for necessary improvements.

1.4.3 How many new programmes/courses were introduced by the institution during the last four years? What was the rationale for introducing new courses/ programmes?)

New UG and PG programs introduced in different departments are listed below:

S. No	Department	Name of the programme	Starting Year
1	CIVIL ENGINEERING	B. Tech CE (120)	2009
		M.Tech(STRUCTURES)(24)	2013

Justification: The demand for post graduate courses has increased with growing market for civil engineering branch in government sector. This growth is due to the global development in infrastructure and construction industry, which enhanced the scope for PG education. In view of the above, it was intended to start new PG course and also to increase the intake of existing UG courses.

NAAC - SELF STUDY REPORT

S. No	Department	Name of the programme	Starting Year
1	Electronics and Communication Engineering	M. Tech DECS (18)	2012
		Intake in B.Tech (60)	2008
		Intake increased in B.Tech. from 60 to 120	2009
		Intake increased in B.Tech. from 120 to 180	2013

Justification for Introduction

1. M.Tech program in Digital Electronics and Communication Engineering:

The demand for Digital Electronics and Communication Engineering has increased with growing market during academic year 2011-12. There is a lot of scope for students in MNC's. This growth is due to the change in Government policy of promoting Research and Development in the country which enhanced the scope for PG education. In view of the above, it was intended to start new PG course.

2. B.Tech program in Electrical and Electronics Engineering:

The Objective of the program is to produce students who are well prepared for Indian Industry with necessary core competency to succeed long term in Engineering/Entrepreneurship careers(Post B.Tech) and who are well prepared to undertake PG studies and research studies.

S. No	Department	Name of the programme	Starting Year
1	EEE	M. Tech (PED)	2013

Justification for Introduction: M.Tech programme in Power Electronics and Drives demand for post graduate courses has increased with growing market for EEE branch during the academic year 2013-14. This growth is due to the change in Government policy of promoting Research and Development in the country and which

NAAC - SELF STUDY REPORT

enhanced the scope for PG education. In view of the above, it was intended to start new PG course.

S.No	Department	Name of the programme	Starting Year
1	Computer Science & Engineering	Intake increased in B.Tech. CSE from 60 to 120.	2011
2	Computer Science & Engineering	M. Tech CSE (36)	2012

Justification for Introduction : M.Tech programme in Computer Science: The demand for post graduate courses has increased with growing market for computer science branch during the academic year 2011-12. This growth is due to the change in Government policy of promoting Research and Development in the country and which enhanced the scope for PG education. In view of the above, it was intended to start new PG course and also to increase the intake of existing PG courses.

S.No	Department	Name of the programme	Starting Year
1	MECHANICAL ENGINEERING	Intake increased in B.Tech. ME from 60 to 120.	2012
2		Intake increased in B.Tech. ME from 120 to 180.	2014
3		M.TECH - 24 (THERMAL ENGINEERING)	2014

Justification for Introduction

1. Intake increase in B.Tech: Mechanical engineers have diversified job options with various multi-functionalities that can be done. The technology is changing continuously, in the mechanical engineering field. In India the growth of mechanical engineering is fast as the automobile, chemical, textile and other industries are upcoming and expanding at reasonably fast rate. Besides this now a

day's mechanical engineering students have tremendous growth and demand in Information technology, software development in banking field, mechanical design and analysis software's. Mechanical engineering is practically needed in every walk of life.

2. M.Tech programme in Thermal Engineering:

There are certain jobs, specific profiles in Mechanical Engineering for which M.Tech degree is essential. Post graduation in Mechanical engineering is good mainly from academic and industry research perspective. They have reasonable opportunities, more abroad than in India because of the presence of lot of manufacturing firms. Germany, Korea, Japan, and US are some of those countries where mechanical engineers, especially with specialization in thermal engineering can find good jobs. Students who possess a postgraduate degree in mechanical engineering can find jobs with the managerial or administrative departments of pioneer industries in the private sector. If they choose, it is also possible for them to go for industry research.

The rationale for introducing new courses in the institution:

- To strengthen the need based on the changing industry demands
- To improve manpower skills in specialized fields of engineering
- To establish centres of excellence in various streams of engineering
- To encourage research and development among the engineers.

Any other relevant information regarding curricular aspects which the college would like to include.

Outcome Based Education (OBE) is followed in the institute. Activities such as Assignments, Quizzes, Course seminar/Course project, and Subject proficiency test are conducted though, they are partially mentioned in the University Curriculum. OBE helps in continuous evaluation of the teaching-learning activities happening in the institute.

NAAC - SELF STUDY REPORT

CRITERION II:

TEACHING-LEARNING AND EVALUATION

2.1 Student Enrollment and Profile

2.1.1 How does the college ensure publicity and transparency in the admission process?

The admission process is based on the guidelines provided by Andhra Pradesh State Council for Higher Education (APSCHE). An advertisement is issued in leading national/regional daily news papers during the admission time which contains detailed information about the courses, intake of students, eligibility criteria. APSCHE offers wide publicity to effect admissions into different colleges / branches of the state for B.Tech, M.Tech & MCA programmes.

- Detailed information for admission into B.Tech, M.Tech & MCA Programs is made available through specific websites authorized by APSCHE (<http://www.apsche.org>). The Website details are given below.

Sl. No.	Course	Admission details available at the URL	Site Maintained By
UG	B.Tech	http://apeamcet.org/	APSCHE , Amaravathi
	B.Tech Lateral Entry	http://apcet.org/	APSCHE , Amaravathi
PG	M. Tech	http://www.appgecet.org/	APSCHE, Amaravathi
	MCA	http://www.apicet.org.in/	APSCHE, Amaravathi

The information regarding the college is also made available through

- The prospectus which gives the complete information about the college which includes courses available, facilities, staff details, rules and regulations etc.,

NAAC - SELF STUDY REPORT

- The college website <http://www.nrigroupofcolleges.com> which is updated on a regular basis gives the latest updated and detailed information about the college.
- The College has a niche for itself for quality education and as the college has grown up as one of the most preferred colleges in this region, we do not believe in advertisements as a mode to reach the public. However parents, students and the general public will know about the academic related activities organized in the college like seminars, conferences, workshops etc. through news papers.
- The admissions committee of the college ensures that admissions are based on the guidelines of APSCHE and utmost transparency is maintained in the entire process.

2.1.2 Explain in detail the criteria adopted and process of admission (Ex. (i) merit (ii) common admission test conducted by state agencies and national agencies (iii) combination of merit and entrance test or merit, entrance test and interview (iv) any other) to various programmes of the Institution.

Admission process is totally under the strict control of APSCHE and according to the guidelines mentioned in the various G.O"s released by A.P. Govt. The seat allocation will be made in two categories.

UG Admissions & PG Admissions:

The students are admitted in four year Undergraduate (UG & PG) programmes in two categories.

Category-A

The first category, Category-A (Convener Quota) (UG)

Category-A seats constitute 70% of the total seats available in the College/branch. These seats are filled by the Convener, EAMCET.

APSCHE has well set tested regulations for admission of students for various Colleges / branches. The admissions are made as per the procedure detailed below:

- Issue of notification- published in the leading Newspapers and websites <http://www.apsche.org/>, <http://www.apearcet.org>
- Online prospectus and applications
- Submission of applications through Online
- Conducting the entrance test and publishing the results
- Preparation of consolidated merit (Rank) list

NAAC - SELF STUDY REPORT

Admission procedure:

- EAMCET counseling dates and schedule is notified in the websites as well as Newspapers.
- Students must know the EAMCET Counseling Procedure before appearing for it and also take mock counseling to get an idea on selecting the college/ branch. Candidates need to select the college/branch using EAMCET web counseling procedure.
- EAMCET online Web Counseling for selecting the college/branch is very simple to understand. <http://www.apsche.org>

Counseling:

- Verification of Certificates
- Exercising options to select the College/ branch through web counseling by entering the EAMCET rank, name and Hall Ticket number
- Editing the options(to change the College/Branch)
- Seat allotment as per the merit order and choice
- Paying the fee
- Reporting at the College allotted.
- The admission committee oversees the entire process in order to ensure transparency

Category-B:

The second category, Category-B (Management quota) (UG, PG & MCA):

Category-B seats constitute 30% of the total available seats. These seats are filled by the College Management as per guidelines of APSICHE. PG admissions are on the basis of the rank obtained in the GATE / PGECET / ICET or marks obtained in the qualifying Examination following a definite procedure, the Management maintains total transparency in filling the seats.

- Gives wide publicity in the print, electronic media and website about the availability of seats and the criteria of admission, course wise.
- Receives applications and prepares a list based on the order of merit as per the orders of Government of Andhra Pradesh.
- The list of selected candidates is displayed in the notice boards and College website.
- Reporting at the College allotted
- All the candidates admitted are ratified by the Govt. of A.P.

Lateral Entry:

There is a provision for Diploma / B.Sc. (MPC) Degree holders for admission in to II/IV B.Tech. (20% seats) under Lateral Entry Scheme. The admission is based on the ranks obtained in ECET conducted by APSICHE. Detailed information is available at the following url: <http://www.apecet.nic.in>

M.Tech and MCA

The students are admitted into the Postgraduate (PG) programmes in two categories. The first category, Category-A seats constitute 70% of the total seats in the Colleges/Branches. The second category, Category-B seats constitute 30% of the total available seats.

Category-A:

Category-A seats in MTech are filled by Convener, APSICHE based on the GATE / PGECET rank and seats in MCA programme are filled by Convener, APSICHE based on the ICET rank.

Category-B:

The second category, Category-B (Management quota) (PG & MCA):

Category-B seats constitute 30% of the total available seats. These seats are filled by the College Management as per guidelines of APSICHE. PG admissions are on the basis of the rank obtained in the GATE / PGECET / ICET or marks obtained in the qualifying Examination following a definite procedure, the Management maintains total transparency in filling the seats.

- Gives wide publicity in the print, electronic media and website about the availability of seats and the criteria of admission, course wise.
- Receives applications and prepares a list based on the order of merit as per the orders of Government of Andhra Pradesh.
- The list of selected candidates is displayed in the notice boards and College website.
- Reporting at the College allotted
- All the candidates admitted are ratified by the Govt. of A.P.

2.1.3 Give the minimum and maximum percentage of marks for admission at entry level for each of the programmes offered by the college and provide a comparison with other colleges of the affiliating university within the city/district.

The admission into UG / PG technical courses in Andhra Pradesh is based on the common entrance tests EAMCET / PGECET

NAAC - SELF STUDY REPORT

respectively. The best and last ranks of the students admitted under various categories in the academic year 2015-16 in the college affiliated to the University in this district is as indicated below.

UG 2015-16	NRIIT		USHARAMA		SRI SARATHI	
	Best Rank	Last Rank	Best Rank	Last Rank	Best Rank	Last Rank
CIVIL						
GEN-boys	23857	88106	62841	98233	COURSE NOT OFFERED	
GEN-girls	13525	103398	23001	110356		
BC - boys	22598	129353	30256	129693		
BC - girls	78850	84793	89656	129565		
SC - boys	84242	124944	95326	125655		
SC - girls	111441	111441	112365	114565		
ST - boys	102308	102308	113256	123692		
ST - girls	NA	NA	NA	NA		
EEE						
GEN-boys	43127	64912	57511	74698	49226	79854
GEN-girls	18369	93565	23656	115698	36598	123658
BC - boys	32164	121307	40698	123656	53691	141664
BC - girls	61803	101058	81236	113459	66105	101298
SC - boys	61394	125680	82365	126532	86548	129587
SC - girls	12696	128696	35565	129678	39613	139874
ST - boys	NA	NA	65985	65985	NA	NA

NAAC - SELF STUDY REPORT

ST - girls	NA	NA	NA	NA	NA	NA
MECH						
GEN-boys	19837	104071	22952	112569	35698	125466
GEN-girls	NA	NA	25698	58978	NA	NA
BC - boys	21734	130087	39562	130165	48362	131254
BC - girls	NA	NA	NA	NA	35985	85462
SC - boys	49493	124735	69535	125987	75235	126854
SC - girls	NA	NA	36589	39587	56987	75489
ST - boys	NA	NA	NA	NA	68547	110215
ST - girls	NA	NA	NA	NA	NA	NA
ECE						
GEN-boys	11441	46433	32550	76982	42565	85642
GEN-girls	13128	55626	23658	85698	36589	96582
BC - boys	26726	125153	35984	127152	69587	126521
BC - girls	26051	107251	39874	115466	45698	115652
SC - boys	72535	125890	86589	126987	98521	126587
SC - girls	43867	123863	69854	125879	85621	126872
ST - boys	49206	49206	65896	69874	72546	98542
ST - girls	NA	NA	NA	NA	112154	125436
CSE						
GEN-boys	12030	51424	23765	72365	36521	130291
GEN-girls	11154	40025	25698	82569	32524	121018

NAAC - SELF STUDY REPORT

BC - boys	32477	78617	36987	98568	40254	102546
BC - girls	13179	114065	26984	123658	39854	125648
SC - boys	55529	125922	73589	127891	69875	128698
SC - girls	62107	119668	65879	120548	68235	121365
ST - boys	NA	NA	65987	75236	NA	NA
ST - girls	NA	NA	NA	NA	89587	112456
IT						
GEN-boys	38879	60548	49938	80231	COURSE NOT OFFERED	
GEN-girls	29819	59360	48658	79854		
BC - boys	53325	119662	65982	125469		
BC - girls	58851	103618	69874	112587		
SC - boys	NA	NA	53685	98523		
SC - girls	NA	NA	NA	NA		
ST - boys	NA	NA	NA	NA		
ST- girls	NA	NA	98541	112365		
NA : No Admission In that Category						

2015-2016								
PG Programme: MCA & / M Tech								
BRANCH			MCA	M.Tech CSE	M.Tech DECS	M.Tech PE&D	M.Tech TE	M.Tech SE
OC	First Ran	BOYS	33418	---	6034	1488	1154	922
		GIRLS	8247	692	3657	4019	---	2041
	Last Ran	BOYS	33418	---	6034	1488	1154	4213
		GIRLS	8247	3675	30006	4019	---	2041
BC (BOYS)	A		12605	---	---	---	---	11919
	B		---	---	---	---	---	---
	D		21433	---	---	---	1040	---
	E		---	---	---	1685	---	2090

NAAC - SELF STUDY REPORT

BC (GIRLS)	A	---	5749	---	---	---	---
	B	---	1107	3888	2648	---	---
	D	48655	---	---	---	---	827
	E	12944	141	---	5290	---	---
SC	BOYS		4923	---	---	---	---
	GIRLS	7954	---	---	5987	---	---
ST	BOYS	---	---	---	911	---	---
	GIRLS	---	---	442	---	---	---
NOTE: --- Represents No admissions under this category							

2.1.4 Is there a mechanism in the institution to review the admission process and student profiles annually? If ‘yes’ what is the outcome of such an effort and how has it contributed to the improvement of the process?

Every academic year a review is conducted on the quality of intake in comparison with previous years and also with reputed colleges in this region to know the college standards. This process has helped in taking necessary curative measures to attract the better quality in the subsequent years. Although, this review has no effect on admission process as such, it has certainly helped the college to review its academic strategies to attract high quality input.

2.1.5 Reflecting on the strategies adopted to increase/improve access for following categories of students, enumerate on how the admission policy of the institution and its student profiles demonstrate/reflect the National commitment to diversity and inclusion *SC/ST, OBC, Women, Differently abled, economically weaker sections, Minority community, Any other

Since the total admission process is carried out and controlled by APSCHE, the college cannot devise any strategy to attract the above category students. All the admissions are made in accordance with reservation policies of AP State Govt. However the admissions under various categories indicate the national commitment to diversity and inclusion of underprivileged categories into the system.

SC/ST/OBC/Economically weaker sections:

The admission procedure for SC/ST/OBC/EWS students is as per the reservation policy of the State Government. Book bank facility is provided for SC/ST students. Fee reimbursement is given by the state government to the SC/ST/OBC/ EWS students.

NAAC - SELF STUDY REPORT

Women:

- 33% of seats are reserved for women in convener quota as per reservation policy of the state government. They can also compete under open category.
- A women empowerment & grievance cell, headed by one senior lady staff member, one lady faculty member from each department is constituted. This cell is meant for the welfare of girl students and lady staff members.

Differently abled:

- Differently abled students are allotted seats as per the reservation policy of the state government.
- For them, classes are held in the ground floor where ramps are available.
- Computer centre facility is available in the ground floor.
- Separate toilets are provided for such students.
- Seats in front row are reserved for them in the classrooms.

Minority Community:

Reservation is available to the minority community as per the state government's policies.

U.G.Seats:						
Category	Gender	2011-12	2012-13	2013-14	2014-15	2015-16
OC	M	140	182	242	289	237
	F	104	147	157	171	157
BC-A	M	33	33	30	22	40
	F	9	15	9	13	14
BC-B	M	44	48	60	62	77
	F	25	32	16	30	35
BC-C	M	3	3	14	6	8
	F	3	5	6	4	5
BC-D	M	59	56	67	65	93
	F	19	15	16	23	36
BC-E	M	16	19	15	14	32
	F	6	7	7	8	7
SC	M	55	73	44	62	66
	F	15	16	14	22	29
ST	M	3	1	4	6	6
	F	1	2	1	--	--

NAAC - SELF STUDY REPORT

P.G.Seats (MCA)						
Category	Gender	2011-12	2012-13	2013-14	2014-15	2015-16
OC	M	18	17	4	1	1
	F	19	11	3	3	3
BC-A	M	4	2	--	1	1
	F	--	2	--	--	--
BC-B	M	5	5	1	--	--
	F	1	3	2	1	--
BC-C	M	--	--	--	--	--
	F	--	-	1	--	--
BC-D	M	8	4	1	1	3
	F	--	1	2	--	1
BC-E	M	--	1	-	--	1
	F	1	--	1	--	1
SC	M	1	--	2	--	--
	F	--	2	1	--	1
ST	M	--	2	--	--	--
	F	--	1	--	--	--

P.G.Seats (M.Tech)						
Category	Gender	2011-12	2012-13	2013-14	2014-15	2015-16
OC	M	Course not offered	7	21	15	11
	F		6	21	18	12
BC-A	M		--	2	5	1
	F		--	--	4	1
BC-B	M		2	2	8	2
	F		2	4	7	6
BC-C	M		--	--	1	3
	F		--	2	--	1
BC-D	M		1	3	7	2
	F		2	8	--	4
BC-E	M		--	--	1	1
	F		--	--	--	2
SC	M		2	3	5	5
	F		2	5	6	7
ST	M		1	--	2	--
	F		--	--	--	--

NAAC - SELF STUDY REPORT

Total seats :								
B.TECH	General		OBC		SC		ST	
	M	F	M	F	M	F	M	F
2011-12	158	123	172	61	56	15	3	1
2012-13	206	164	174	84	75	19	2	2
2013-14	267	181	194	74	49	20	4	8
2014-15	225	192	194	90	53	28	1	0
2015-16	249	172	269	108	71	37	6	0

2.1.6 Provide the following details for various programmes offered by the institution during the last four years and comment on the trends. i.e. reasons for increase /decrease and actions initiated for improvement.

The demand ratio for the admissions under Category-A cannot be analyzed as the entire process of student preferences and seat allocation is made online by APSICHE and the data cannot be acquired by the institute.

However As per APSICHE notification, apex body of the state which conducts Engineering admissions, NRIIT is in the Top-Ten Most Preferred Colleges out of 700+ private Engineering Colleges in the state of AP.

The details of the seats filled up under Category – A, for the last 5 years in different branches is as given below.

U.G. Programmes :										
Branch	2011-12		2012-13		2013-14		2014-15		2015-16	
	Sancti oned strengt h	Stud ents Enro lled	Sancti oned strengt h	Stud ents Enro lled	Sancti oned Streng th	Stud ents Enro lled	Sancti oned strengt h	Stud ents Enro lled	Sancti oned Streng th	Stud ents Enro lled
EEE	60	60	60	60	60	42	60	40	60	55
ECE	120	120	120	120	180	168	180	180	180	180
CSE	120	120	120	120	180	179	180	180	180	180
IT	60	60	60	59	60	0	60	50	60	60

NAAC - SELF STUDY REPORT

CIVIL	60	60	120	60	120	106	120	110	120	119
Mechanical	60	60	120	60	180	120	180	134	180	152

Under Category – A, all the seats filled up in ECE, EEE, CSE, Mechanical and Civil. The seats are not filled up in IT completely because of the global recession which is affecting the IT sector.

P.G. Programmes :										
	2011-12		2012-13		2013-14		2014-15		2015-16	
Branch	Sanctioned strength	Students Enrolled	Sanctioned strength	Students Enrolled	Sanctioned strength	Students Enrolled	Sanctioned strength	Students Enrolled	Sanctioned strength	Students Enrolled
MCA	120	57	120	47	120	18	120	7	120	12
M.Tech	M.Tech course Not offered		--	--	--	--	18	15	18	13
M.Tech			18	18	36	35	36	29	36	13
M.Tech (DE)			18	17	18	18	18	13	18	10
M.Tech			--	--	18	18	18	17	18	18
M.Tech			--	--	--	--	18	5	18	4

The demand for Category B seats (30%) of seats for UG is as given below.

Number of applications received and admitted student's data -B – Category seats.

Programmes	Number of Students Applications	Number of students Intake	Demand ratio
UG & PG Courses (2015-16)			
Electrical & Electronics Engineering	12	18	0.6

NAAC - SELF STUDY REPORT

Electronics and Communication Engineering	75	54	1.3
Computer Science and Engineering	85	54	1.5
Information Technology	18	18	1.0
Civil Engineering	30	36	0.8
Mechanical Engineering	36	54	0.6
M.Tech (Power Electronics & Drives)	8	5	1.6
M.Tech (Digital electronics & Communication Systems)	3	5	0.6
M.Tech (Computer Science& Engineering)	3	10	0.3
M.Tech (Thermal Engineering)	2	5	0.4
M.Tech (Structural Engineering)	4	5	0.8
UG & PG Courses (2014-15)			
Electrical & Electronics Engineering	20	18	1.1
Electronics and Communication Engineering	70	54	1.2
Computer Science and Engineering	80	54	1.4
Information Technology	25	18	1.3
Civil Engineering	40	36	1.1
Mechanical Engineering	60	54	1.1
M.Tech (Power Electronics & Drives)	9	5	1.8
M.Tech (Digital electronics & Communication Systems)	5	5	1
M.Tech (Computer Science& Engineering)	7	10	0.7
M.Tech (Thermal Engineering)	3	5	0.6
M.Tech (Structural Engineering)	6	5	1.2
UG & PG Courses (2013-14)			
Electrical & Electronics Engineering	19	18	1.1

NAAC - SELF STUDY REPORT

Electronics and Communication Engineering	65	54	1.2
Computer Science and Engineering	70	54	1.2
Information Technology	0	18	0.0
Civil Engineering	41	36	1.1
Mechanical Engineering	65	54	1.2
M.Tech (Power Electronics & Drives)	10	5	2.0
M.Tech (Digital electronics & Communication Systems)	9	5	1.8
M.Tech (Computer Science& Engineering)	15	10	1.5

2.2 Catering to Student Diversity

2.2.1 How does the institution cater to the needs of differently-abled students and ensure adherence to government policies in this regard?

The institution is fully adhering to Andhra Pradesh Government policies regarding the needs of differently-abled students. In the college, special attention is given and their needs are taken care of during the course of study. For the differently-abled students (physical disability), the classroom is allotted on the ground floor if necessary. Ramps are provided in the Civil and Mechanical blocks for the benefit of such students.

2.2.2 Does the institution assess the student's needs in terms of knowledge and skills before the commencement of the programme? If 'yes', give details on the process.

The institution is well aware of the student needs as they progress from intermediate /+2 programme to a technical course and tries to educate the students accordingly. The assessments of the students needs are in the following ways.

- Bridge courses are conducted in Mathematics, Physics and Chemistry for the newly admitted students before commencement of class work.
- Special classes are organized for the lateral entry students who are admitted in II Year after their diploma course.

NAAC - SELF STUDY REPORT

2.2.3 What are the strategies adopted by the institution to bridge the knowledge gap of the enrolled students (Bridge/Remedial/ Add-on/Enrichment Courses, etc.) to enable them to cope with the programme of their choice?

- To reduce the knowledge gap of the enrolled students the institute adopts different strategies and action plans. They are as listed below.
- The institution conducts remedial classes / tutorial classes for slow learner's in different subjects to enhance their skills and competence.
- Personality Development programmes are conducted to improve their personality and to motivate them to be innovative and creative.
- Communication Skills lab has been established to improve English proficiency, particularly for students from rural background.
- Industrial visits are arranged to make students understand the practical applicability of various theoretical aspects that were learnt in the class room.

Add-on Courses:

The following additional courses are taught to the students:

B. TECH:

S.NO.	DEPARTMENT	ADDITIONAL COURSES
1	Civil Engineering	1. Training on Geographical Information System is arranged 2. Field visits are arranged 3. Various models are used for class room instruction
2	Computer Science and Engineering	1. Computer Programming for Lateral Entry students as bridge course. 2. App development on windows 8 & Windows phone as add on courses. 3. MATLAB for doing Project Work.
3	Electronics and Communication Engineering	1. New electronic design software's like LabVIEW, PSPICE, MATLAB v7. 2. Embedded systems as bridge course, campus recruitment & Placement as bridge course. 3. C programming for Lateral entry students as Remedial course.
4	Electrical and Electronics Engineering	Latest software/packages like MATLAB, PSPICE, SIMULINK etc.
5	Information Technology	1. Computer Programming for Lateral Entry students as bridge course. 2. App development on windows 8 & Windows phone as add on courses.

NAAC - SELF STUDY REPORT

		3. MATLAB for doing Project Work.
6	Mechanical Engineering	1. Training on Latest CAD package. 2. Flexible Manufacturing System

M. TECH:

S.NO.	DEPARTMENT	ADDITIONAL COURSES
1	Civil Engineering	Latest Software packages like STAAD Pro V8 and Ansys
2	Computer Science and Engineering	1. App development on windows 8 & Windows phone as add on courses. 2. Cloud programming to introduce up to date technologies 3. MATLAB for implementation of projects.
3	Electronics and Communication Engineering	1. Latest software's and New Electronic Design software's like LabVIEW
4	Electrical and Electronics Engineering	Latest software/packages like MATLAB, PSPICE, SIMULINK etc.
5	Mechanical Engineering	1. Training on Latest CAD package. 2. Flexible Manufacturing System 3. Course on Futuristic Trends on Fabrication.

Bridge Courses

- For I Year UG students bridge courses are conducted as per the guidelines provided by the Affiliating University as mentioned in 2.2.2.
- For the lateral entry students (admitted directly to the second year) bridge courses are being conducted for 15 days at the beginning of the semester in Mathematics.
- E-learning material is made available {NPTEL etc.} for the self-paced learning by the slow learners.
- Campus Recruitment Training Programmes are conducted by the Training & Placement cell to improve Communication skills, Personality Development, etc.

2.2.4 How does the college sensitize its staff and students on issues such as gender, inclusion, environment etc.?

The institution has the tradition of imparting holistic education with emphasis on ethical, moral and environmental issues.

NAAC - SELF STUDY REPORT

The college sensitizes its staff and students on issues such as environment etc. by organizing seminars on the relevant topics like pollution control, through NSS activities etc.

Women's Grievances Redressal cell is constituted in the college and it is headed by one senior lady staff member. This cell looks after the welfare of girl students and women staff members.

2.2.5 How does the institution identify and respond to special educational/learning needs of advanced learners?

- Basing on the performance in the internal examinations, performance in the class and in the class tests, the advanced learners are identified. These students are encouraged to set higher goals. The needed guidelines and support is extended by the faculty for their career planning and growth.
- Encourage them for class room seminars, group discussions and technical quiz that develop analytical, problem solving and presentation skills.
- Importance of research activity is stressed.
- Motivate them to publish and present papers at national and international conferences
- Motivate them to do certification courses
- Encourage them to assist slow learners in peer tutoring classes
- Special training is given for GATE , CAT, GRE, TOFEL & IELTS
- Special coaching is given to improve communication skills
- Seminar topics are given and encouraged to develop public speaking skills
- Reference books, journals are suggested to be beyond the syllabus

Thus the students with higher learning skills are supported by the college.

2.2.6 How does the institute collect, analyze and use the data and information on the academic performance (through the programme duration) of the students at risk of drop out (students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections etc. who may discontinue their studies if some sort of support is not provided)?

- The college has a proctorial system in place wherein 15 students will be allocated to faculty who will be acting as their mentor / counselor. Their attendance, marks and performance will be regularly monitored by the mentor and corrective measures are initiated whenever needed through counseling by the mentor or by the Head of the Department or Principal.

NAAC - SELF STUDY REPORT

- Slow learners are those students who are many times the less self-motivated. The college understands that such students have a sense of failure tendency. If they fail in some subjects in the initial semesters, they lose faith in themselves which has demotivating effect and they may fail further. The proctorial system helps them and also remedial classes are organized regularly to instill self-confidence in performing well in the exams.
- Such under-performing students also have a tendency to miss the class work. Regularly, monthly reports will be sent to parents of such students and they are advised to counsel their wards apart from the counseling done at the college level.
- The entire faculty generally makes their lecture notes available to the slow learners if they wish to have.

2.3 Teaching-Learning Process

2.3.1 How does the college plan and organize the teaching, learning and evaluation schedules? (Academic calendar, teaching plan, evaluation blue print, etc.)

Academic calendar:

JNTU Kakinada issues the Academic calendar and it is available on the university portal at the beginning of each academic year and circulated among all the departments and also displayed on notice boards and website. Based on the academic calendar, the college formulates academic schedule is made for each year before the academic programs start.

The following information is available in the given Academic Schedule:

- Starting of Odd and Even Semester classes.
- Dates for mid/internal semester examinations.
- Sending of internal marks.
- Sending of assignment marks.
- Dates for end semester examinations.
- Tentative dates for internal Lab Exams.

The model academic schedule is as shown below:

Academic Calendar for B.Tech IV Year –I Semester for the academic year 2016-17:

I SEMESTER

S.No.	Event	Period	Duration
1	Commencement of class work	27-06-2016	

NAAC - SELF STUDY REPORT

2	I Spell of instructions	27-06-2016 20-08-2016	to	8 weeks
3	Krishna Pushkaralu Holidays	14-08-2016 21-08-2016	to	1 week
4	I Mid Examinations- Timings:02.30PM to 04.00PM	22-08-2016 27-08-2016	to	1 week
5	Posting of I Mid Marks	30-08-2016		
6	Continuation of II Spell of instructions	29-08-2016 22-10-2016	to	8 Weeks
7	II Mid Examinations: 02.30PM to 4.00PM	24-10-2016 29-10-2016	to	1 Week
8	Posting of II Mid Marks	01-11-2016		
9	Internal Lab Exams- Timings: 09.30AM to 04.00PM	31-10-2016 05-11-2016	to	1 Week
10	End Semester Examinations	07-11-2016 19-11-2016	to	2 Weeks
11	Commencement of class work for II Semester	05-12-2016		

II SEMESTER

S.No.	Event	Period		Duration
1	Commencement of class work	05-12-2016		
2	I Spell of instructions	05-12-2016 28-01-2016	to	8 weeks
3	I Mid Examinations- Timings:02.30PM to 04.00PM	30-01-2017 04-02-2017	to	1 week
4	Posting of I Mid Marks	07-02-2017		
5	Continuation of II Spell of instructions	06-02-2017 01-04-2017	to	8 Weeks
6	II Mid Examinations: 02.30PM to 4.00PM	03-04-2017 08-04-2017	to	1 Week
7	Posting of II Mid Marks	11-04-2017		
8	External Project Viva Voce- Timings: 09.30AM to 04.00PM	22-04-2017		1 Day
9	End Semester Examinations	17-04-2017 29-04-2017	to	2 Weeks

Teaching Plan:

The Teaching plan for each subject is prepared by the faculty well in advance, before the commencement of the semester and they are duly checked by respective HODs.

The teaching plan file for each subject consists of Lecture schedule, notes, assignments, old question papers, content beyond syllabus, mid-term question papers and model answer scripts.

Review meetings are arranged periodically to review the coverage of syllabus. Teacher uses teaching aids like OHPs, LCDs wherever necessary. Assignment and tutorials are given. Class tests are conducted. All the faculty members use attendance registers for the theory as well as laboratory courses. It contains details of students register number, name, attendance details, period wise syllabus coverage, periodical test marks, attendance percentage and internal assessment marks .

Evaluation blueprint:

- Twice in a semester mid exams are conducted. An on line objective test and a descriptive test are conducted for each subject.
- Internal lab examinations are conducted once in every semester.
- Continuous evaluation procedure is followed for practicals as per University guidelines.
- University conducts end semester examinations in both theory and practicals.
- Evaluation of main projects is also done by the University.

2.3.2 How does IQAC contribute to improve the teaching – learning process?

The college has constituted Internal Quality Assurance Cell (IQAC). The IQAC is constituted and takes the following activities:

- Development of Quality benchmark / parameters for various academic and administrative activities of the institute.
- Organization of workshops, seminars and quality related themes.
- Conducting internal quality audit periodically.
- Timely, efficient and progressive performance of academic, administrative and financial tasks.
- The relevance and quality of academic and research programs.
- Equitable access to and affordability of academic programs for Students.
- Optimization and integration of modern methods of teaching and learning.

2.3.3 How is learning made more student-centric? Give details on the support structures and systems available for teachers to develop skills like interactive learning, collaborative learning and independent learning among the students?

NRIIT believes in student-centric learning and supports creative learning environment, where students think on their own and interact with peers and teachers which provides diversified learning environment and creates an environment for real communication.

The College supports student-centric learning through its efforts at creating a learning atmosphere which allows students to think in different way, respond and pose questions. The basic methodology adopted is to provide students with a diversity of learning experiences.

Faculty are eager to guide in many student centric activities like:

- Seminar Presentation by the student.
- Industry oriented mini project.
- Major Project in latest technology.
- Internet exposure.
- Internship with industry.
- Such exposures create confidence to students to improve student learning and knowledge management.
- They show leadership qualities in organizing college events like “SUNRISE”, a two day national level technical symposium.

2.3.4 How does the institution nurture critical thinking, creativity and scientific temper among the students to transform them into life-long learners and innovators?

The college encourages critical thinking, creativity and scientific temper among the students by:

- Conducting workshops,
- Symposiums
- Inviting eminent persons from the industry and academia.
The college provides students with state of the art laboratories to enrich the knowledge and capabilities of students for their effective growth in academics, so that they can have effective learning. It is equipped with several amenities like:
 - OHP
 - LCD Projectors
 - NPTEL Videos
 - Digital library
 - Computer lab with LAN and Internet Connectivity

- Multimedia Kits
- Learning Management System to various subjects
All the facilities are provided to the students during his /her course.

2.3.5. What are the technologies and facilities available and used by the faculty for effective teaching? E.g.: Virtual laboratories, e-learning - resources from National Programme on Technology Enhanced Learning (NPTEL) and National Mission on Education through Information and Communication Technology (NME-ICT), open educational resources, mobile education, etc.

NRIIT makes all efforts to impart technologies and facilities available to the faculty for effective teaching. The institute uses modern multimedia teaching aids like multimedia projectors, internet enabled computers, white-boards in classrooms for effective presentation of the subject. Resources from NPTEL, NMEICT and other resources are made available to the students and staff.

NRIIT provides e-Learning facility for faculty and students to use NPTEL videos, Globarena Material, E-Articles of journals. Faculty communicate with the students through internet for giving the assignments and class notes will be posted on the internet.

2.3.6 How are the students and faculty exposed to advanced level of knowledge and skills (blended learning, expert lectures, seminars, workshops etc.)?

NRIIT organizes various seminars, expert lectures, conferences and workshops for students and faculty to advance in the level of knowledge and skills. It also encourages them to keep pace with recent developments in their disciplines by pursuing research journals, latest reference books, participating in national seminars / workshops / symposium / summer schools / Industrial visit /refresher courses / internet browsing and interactions with experts. The students are encouraged to read the magazines, journals, CD-ROM data bases and latest information available on the internet & in the library. The faculty members are deputed to the faculty development programs organized by reputed universities, IITs and NIITs. Faculty and students are also advised to take part in National and international technical conferences.

2.3.7 Detail (process and the number of students \benefitted) on the academic, personal and psycho-social support and guidance services (professional counseling /mentoring/academic advise) provided to students?

At NRIIT there is a provision of counselor, each class divided into groups of 15-20 students and a Councilor from the department interacts

with the students every now and then. A separate counseling session is arranged every week and the allotted teacher counselor looks after certain aspects i.e., academic, personal, and psycho-social support and guidance on professional counseling, mentoring, motivation, and skills development. If any problems are identified, the student will be sent to the professional advisor.

2.3.8 Provide details of innovative teaching approaches/methods adopted by the faculty during the last four years? What are the efforts made by the institution to encourage the faculty to adopt new and innovative approaches and the impact of such innovative practices on student learning?

Some of the teachers use the following innovative techniques in addition to conventional lecture methods.

- **Project –based learning:**
This method is mostly used to improve the ability of application and also to reinforce knowledge given during the lecture. Being a technical institute, this method is extensively used to provide empirical evidence of theory learnt. Students are asked to prepare projects involving application of the concepts, principles or laws learnt. The teacher guides the students at various stages of developing the project and gives timely inputs for the development of the model.
- **Seminar method:**
From time to time, the teacher involves the active (advanced learners) students into the seminar method. A student is advised to come prepared on a pre-assigned topic and present a seminar in the presence of the faculty and classmates. This method is very effective in motivating students to undertake extensive reading and develop communication and presentation skills.
- **Computer-Assisted Learning:**
It is one of the effective methods in teaching-learning process particularly in core subjects. It is extensively used for visualizing, analysing and understanding complex topics and in interpretation of large data.
- **Experiential Learning:**
Each Department organizes short and long industrial study tours. A couple of teachers accompany the students and explain the various processes which they have learnt in the classroom and adopted in the industry.

As an outcome of these innovative techniques the students are equipped with the latest technologies, their trends and impact of their usage in the society. Confidence levels of students are enhanced enabling them to participate actively in all competitions.

2.3.9 How are library resources used to augment the teaching- learning process?

The institution has a very good central library located on the first floor in the main building. The library is the knowledge hub of any college. NRIIT library offers different services to augment the teaching-learning process. It is opened even beyond working hours.

The resources available

Titles	:	3156
Total No. of Volumes	:	20366
e- Journals	:	25 + 16,00,000 (NDL Online)
Print Journals	:	74
Digital Library	:	Yes 30 computers are available with multi- media & internet facility NPTEL and 600+other video E- courses are available

2.3.10 Does the institution face any challenges in completing the curriculum within the planned time frame and calendar? If „yes“, elaborate on the challenges encountered and the institutional approaches to overcome these.

“Yes “, This type of situation occurs rarely that the faculty has not been able to complete the curriculum within the stipulated timeframe. The teachers manage to successfully shoulder their responsibilities. Sometimes because of natural calamities and local Holidays, institution faces challenges in completing the curriculum but the college tries to overcome these challenges through extra classes. The HOD keeps a check on the syllabus covered. Faculty conducts extra classes and students are motivated to complete the work on day to day basis. Agitations in the state disturbed two academic years. This interruption is compensated by arranging extra classes. Unforeseen interruption of the class work is compensated by arranging extra classes. The syllabus coverage is monitored by IQAC and remedial measures are suggested to the teachers, if any lacuna is found.

For all the iv year students C, Java Programming classes are conducted to perform well in the placement drives. Group Discussions and Mock interviews are conducted.

NAAC - SELF STUDY REPORT

2.3.11 How does the institute monitor and evaluate the quality of teaching learning?

The feedback from students on faculty performance is taken twice in a semester to evaluate the teacher performance in class room teaching on 12 parameters on a 5 point scale. The feedback is analyzed and evaluated on the score of 100 and every teacher is provided with a copy of feedback for taking necessary corrective action. Further, teachers are counseled by the head of the department and also by the Principal if required. Monitoring is also done through class work review committees (CWRC) to assess the uniformity in syllabus coverage, and also the quality of teaching.

Annual reviews are conducted on detailed self-appraisal forms to evaluate the performance on teaching, research and other performance related issues. The quality of course material, assignments and question papers prepared by the faculty are assessed internally and suitable suggestions are given.

2.4 Teacher Quality

2.4.1 Provide the following details and elaborate on the strategies adopted by the college in planning and management (recruitment and retention)of its human resource(qualified and competent teachers)to meet the changing requirements of the curriculum.

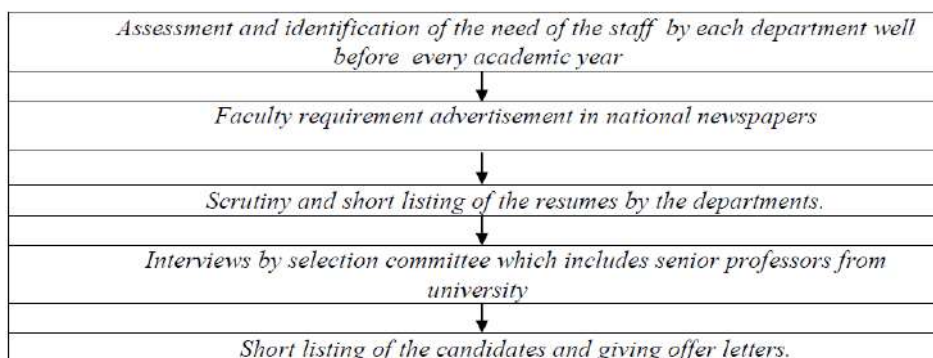
The college looks for the best faculty who have expertise in their field of study.

Faculty details

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.	0	0	0	0	0	0	0
Ph.D.	12	1	4	2	2	3	24
M. Phil.	0	0	0	1	7	6	14
PG	3	0	7	0	72	52	134
UG	0	0	0	0	5	13	18
Temporary teachers							
Ph.D.	Nil						
M. Phil.							
PG							
Part-time teachers							
Ph.D.	Nil						
M. Phil.							
PG							
GRAND TOTAL	15	1	11	3	86	74	190

NAAC - SELF STUDY REPORT

The college recruits qualified, experienced and capable faculty well before the starting of the academic year and also as and when the need arises and thus maintains a faculty student ratio as per the AICTE norms. A systematic procedure is followed for the recruitment of the faculty as given below.



A healthy and good retention ratio is maintained in the faculty cadre by creating a good environment and providing incentives as detailed below.

- Special academic leave for research and PhD work.
- Sponsoring for higher education
- Incentives for paper publications
- Sponsoring for seminars / workshops etc.
- Group insurance scheme.

2.4.2 How does the institution cope with the growing demand/ scarcity of qualified senior faculty to teach new programmes/ modern areas (emerging areas) of study being introduced (Biotechnology, IT, Bioinformatics etc.)?

The college has qualified faculty to handle all the subjects as proposed in the curriculum of JNTUK to which the college is affiliated. In all the new courses added and to teach subjects of emerging areas, the college has always strived to employ persons of repute with domain expertise. The young faculty are encouraged to pursue their Ph.D through QIP/ Part time programme and get the expertise in latest emerging areas. For eg., there are good number of faculty having expertise in the emerging areas of Nano- Technology, cloud computing, artificial intelligence, robotics etc. The institute always strives to give the best input to the students. A step in this direction is taken by utilizing the services of retired faculty from universities / NITs. to enhance the efficacy of teaching learning processes.

NAAC - SELF STUDY REPORT

2.4.3 Providing details on staff development programmes during the last four years elaborate on the strategies adopted by the institution in enhancing the teacher quality.

The Institute believes that the faculty should hone up their skills at regular intervals and upgrade their knowledge. The faculty is liberally nominated to undergo various training programmes and the details are given below.

a) Nomination to staff development programmes (Faculty trained through different staff development programmes)

Academic Staff Development Programmes	Number of faculty nominated
Refresher courses	13
HRD programmes	5
Orientation programmes	13
Staff training conducted by the university	12
Staff training conducted by other institutions	27
Summer / winter schools, workshops, etc.	46

b) Faculty Training programmes organized by the institution to empower and Enable the use of various tools and technology for improved teaching- learning

Teaching learning methods/approaches:

Yearly twice, each department of the college share, discuss and update their knowledge in respective fields. The staff gets awareness of latest emerging technologies and the latest trends and the same is shared among themselves. They are encouraged to attend national, international seminars for presenting papers and for workshops to enhance their skills. The concepts that are discussed in the seminars are shared and knowledge is imparted in the department. This helps the other faculty to know the different trends. Internal seminars are conducted in the college regarding faculty research work. Suggestions and analysis are also being done. The whole process makes them aware of the latest development in technology there by empowering the teachers to improve their knowledge, teaching methods and research abilities. Faculty is encouraged to participate in the FDP program organized by JNTU Kakinada whenever new courses are introduced and syllabus is modified.

NAAC - SELF STUDY REPORT

The Principal, all Hod's, Senior faculty and other interested faculty participate in the programme. New faculty gets good exposure and the programme enables them to enrich their knowledge and skills. Computer Science Department trains the faculty to use audio- visual aids and multimedia which are incorporated into their teaching-learning process, the departments are provided with these facilities. Internet access, digital library, Seminars, Symposiums and workshops help the faculty in developing teaching plan and course files.

Handling new curriculum:

The college has experienced and qualified faculty to handle the new curriculum effectively. HOD calls for the meetings with the faculty members to brief and explain the new syllabus and device methods to empower the teachers to handle the new courses Faculty members are asked to attend the FDP Programmes offered by the affiliating JNTUK for new courses.

Content/knowledge management:

In the area of content / knowledge management system our faculty members are deputed for National and International seminars/ Field visits and also train the trainer programs which help largely to update their knowledge and skills.

Selection, development and use of enrichment materials:

The college organizes seminars, workshops, dissemination workshops, to enrich all practices and aspects of teaching and learning process. Further the faculty members receive invitations from various institutions to act as resource persons. They also present paper in the leading national and International Conferences. Newly inducted faculty will be given orientation program by the Principal, HoD's of various departments which enable the new faculty to enrich their knowledge.

Assessment:

The self – appraisal report is one of the major yard sticks used for the promotion of the faculty. It gives a clear picture in terms of research needs. Suggestions to improve the academic system is given by the faculty through Self – Appraisal Report which is used as a reference by the college.

Cross cutting issues:

Seminars and workshops are conducted wherein experts from industries /academia are invited to share and deliver their knowledge and experience to sensitize and bring out awareness about the gender

NAAC - SELF STUDY REPORT

issue and empowerment of women and upliftment of socially and economically weaker society

Audio Visual Aids/multimedia:

Faculty members are trained to use audio visual aids and multimedia in the Class room. All departments are provided with audio visual aids and teaching learning aids.

Teaching learning material development, selection and use:

Faculty members are given free access to internet which helps them to traverse through ocean of learning materials. The college has a well stocked library containing both reference and text books of various subjects. Further attending and organizing seminars, symposiums and workshops also help the faculty in developing the course materials.

c) Percentage of faculty

1	Invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies	05%
2	Participated in external Workshops / Seminars / Conferences recognized by national/ international professional bodies	44%
3	Presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies	47%

2.4.4 What policies/systems are in place to recharge teachers? (eg: providing research grants, study leave, support for research and academic publications teaching experience in other national institutions and specialized programmes industrial engagement etc.)

There are about 45 teachers who have registered for Ph.D.The institution grants study leave and OD for their course work. Faculty is sponsored for seminars, Conferences, Workshops and Symposiums. Senior faculty is given desktop with internet facility and Wi-Fi. For other faculty systems are provided in the computer lab with Wi- Fi and Internet access. Seminars, Workshops, symposiums and FDP's are conducted for the faculty. Faculty is also encouraged to publish papers.

NAAC - SELF STUDY REPORT

2.4.5 Give the number of faculty who received awards / recognition at the state, national and international level for excellence in teaching during the last four years. Enunciate how the institutional culture and environment contributed to such performance/achievement of the faculty.

S.No	NAME OF THE FACULTY	AWARD
1	Dr.D.KAILASA RAO	<p>a. Received Best Teacher Award from Government of Andhra Pradesh during 2005.</p> <p>b. Received Best Teacher Award from Kanthi Social Organization, Vijayawada 2006</p> <p>c. Received Mahatma Gandhi Gold Medal National Award – 2014 for educational and Service Activities.</p> <p>d. Received Dr. Abdul Kalam Gold Medal National Award 2015 for outstanding Research and Educational Activity.</p> <p>e. Received Vidya Ratna Award from Social Needs Education and Health Association (SNEHA) State Level Award, Tirupati</p> <p>f. Attended duty without taking any leave including Casual Leave for 23 years and received appreciation from the Management of Sarada College.</p>
2	Dr.N.SAMBA SIVA RAO	<p>a. Received Best Teacher Award from JNTUK during 2014</p> <p>b. Received Best Researcher Award from JNTUK during 2014</p>

2.4.6 Has the institution introduced evaluation of teachers by the students and external Peers? If yes, how is the evaluation used for improving the quality of the teaching-learning process?

“Yes”, At the end of each semester the students give feedback of the faculty who taught the specific subject for twice. Such evaluation is really improving the quality of teaching learning process among the faculty members. A faculty/teacher is really able to understand the areas he/she is strong and weak and can correct the mistakes

automatically with the help of the feedback that is given by the students.

A feed-back pro-forma is given at the end of each semester each student. The whole process is highly confidential. This evaluation helps teachers to understand their teaching ability and encourages them to improve their teaching abilities as well as teaching learning process and they also realize the areas in which they are strong and where they are weak. The process helps the teacher to evaluate himself/herself.

2.5 Evaluation Process and Reforms

2.5.1 How does the institution ensure that the stakeholders of the institution especially students and faculty are aware of the evaluation processes?

The regulations R7, R10, R13, R16 give detail evaluation process. College website and university (JNTUK) website offers the regulations, curricular and syllabi in the portal. If any instruction is made regarding this, that will be informed to the students. The instructions are sent to the class rooms and are read by the faculty and the same is display on the notice board.

Students are informed about the internal and external assessment process, importance of attendance, pass percentage and they are made aware of eligibility criteria for writing the end semester exams. Regularly staff meetings are conducted regarding evaluation process and take measures that are needed for the smooth application of the rules about the evaluation process. Instructions received from the university are promptly intimated to the students. In the orientation programme the first year students and parents are informed about the process of evaluation. Class teachers and individual subject teachers inform the students about internal and external assessment and the eligibility criteria for writing exams. Mock test is conducted before they take real on-line exam in the first mid for freshers.

2.5.2 What are the major evaluation reforms of the university that the institution has adopted and what are their forms initiated by the institution on its own?

External examiner evaluates the project work. University seating plan and set no. for external examination are strictly followed. If the student wants, there is a provision for re-counting, re-evaluation and challenge re-valuation. Credits are given for each subject and needs required credits to qualify B.Tech examination. Examiners are sent to the practical examinations and Viva-Voce evaluate. They correct semester scripts and analyze students' ability. The process is based on the

NAAC - SELF STUDY REPORT

instructions given by the University. Result analysis is done for each semester. This helps to plan strategies to improve the pass percentage.

The institution adopts the reforms that are initiated by the University. Mid examination are conducted at two intervals, descriptive tests and objective tests and assignments are for internal evaluation. Objective tests are conducted by JNTU Kakinada on-line. For practical examination, a student is continually evaluated throughout the semester and internal lab exam is conducted for 25Marks. University appoints an external examiner and teacher concerned conduct the external lab examination which is for 75% marks. Project work is continuously monitored and continuous reviews make the final year students strong.

2.5.3 How does the institution ensure effective implementation of the evaluation reforms of the university and those initiated by the institution on its own?

The evaluation reforms of the University are followed meticulously and scrupulously Transparency is maintained. Internal descriptive answer booklet is shown to the students and gets that signed by the student. The marks are entered in the web portal of JNTUK University. The result and attendance is also displayed in the notice boards and the same is communicated to the parents. Basing on the result top five students are selected for chairman's club. This is to encourage all the students for better further performance. Top three students from every class are selected for academic prizes. Students can apply for re-counting, re-evaluation and challenge re- evaluation as per the University norms.

2.5.4 Provide details on the formative and summative assessment approaches adapted to measure student achievement. Cite a few examples which have positively impacted the system?

Formative Assessment:

At the primary level the student is monitored and the feedback is taken regarding teaching learning process. Needed suggestions are given to teachers. Students are motivated to improve their learning process. Students are encouraged to prepare a topic and present every day. A student or group of students deals with the concept and they explain it in the peer teaching (PT) period. It improves not only their knowledge but also public speaking skills. When a concept is discussed, basing on the concept different group activities are planned to make the students come out from his/her inhibitions. Class room interactions, group discussions improve their analytical and logical abilities. Every teacher tests the performance of the students at regular intervals. The whole

NAAC - SELF STUDY REPORT

process helps them to actively participate in inter/intra college competition. Attendance is regularly monitored. If the student is absent the same will be communicated to parents through a message. If the students absent for 3 consecutive days, problem will be identified and necessary steps will be taken.

Summative Assessment:

The goal of summative assessment is to evaluate learning developed by a student towards the end of the semester. Summative assessments are of ten high stakes, which means that they have a high point value. Summative Assessment takes place twice in semester in the form of MID-I and MID-II Examinations. Finally, the university conducts a summative evaluation at the end of each semester through the following.

- End Semester Examinations
- Practical Examinations
- Project work
- Seminars
- Comprehensive Viva-Voce

2.5.5 Detail on the significant improvements made in ensuring rigor and transparency in the internal assessment during the last four years and weightages assigned for the overall development of students (weightage for behavioral aspects, independent learning, communication skills etc.)

After evaluation of the assignments/tests etc. the outcome results are discussed in the class, results are put on the notice board, students are individually counseled. While evaluating students for internal assessment, transparency is maintained by countersigning of the internal examination paper by the students after distribution and due weightage is given for their behavioral attributes, independent learning and communication skills. The students and parents are communicated about the progress through letter. Parents and local guardians are invited to the college to discuss the necessary action to be implemented for the progress of the student.

2.5.6 What is the graduate attributes specified by the college/affiliating university? How does the college ensure the attainment of these by the students?

A graduate when he completes his Engineering course is expected to possess

- Good Technical Knowledge
 - Working skills
 - Right attitude
- The knowledge is gained by the effective teaching in the class room and at the same time the breadth and depth are provided by institute through various activities like guest lectures, seminars, contents beyond syllabus etc.

The skills are of many types like :

- Technical skills - Learned through lab
- Interpersonal skills – Organizing tech-fests / seminars, student chapters etc.

Attitudes are normally moulded by the kind of working environment created by the institute. The institute creates an atmosphere of utmost discipline as far as the behavior of the students is concerned and the same time giving sufficient flexibility and encouragement regarding the co-curricular activities.

2.5.7 What are the mechanisms for redressal of grievances with reference to Evaluation both at the college and University level?

At College Level:

If the student has any grievance about the marks in the internal examinations, he / she may bring it to the notice of the respective teacher. If he / she is not satisfied, the problem may be represented to the Principal through the HOD concerned.

At University Level:

The grievances related to university examinations are redressed through different mechanisms. Revaluation/ recounting are the means by which the students' complaints are addressed. This is done by forwarding an application for revaluation/recounting through proper channels to the University.

2.6 Student Performance and Learning Outcomes

2.6.1 Does the college have clearly stated learning outcomes? If „yes “give details on how the students and staff are made aware of these?

Yes, NRIIT has clearly stated objectives which point out towards learning outcomes and has recognized that a full commitment to teaching and learning. It also recognized that this information improves the method of imparting education. These objectives are stated in the prospectus. The vision, mission and goals of the college also indicate

NAAC - SELF STUDY REPORT

the learning outcomes. Each course also has objectives clearly stated which are discussed with the students. The results of Outcome Assessment are used to evaluate the effectiveness of academic programs and activities, and student services, and the performance of individual faculty or staff. Faculty use the information collected to develop and improve academic programs.

2.6.2 Enumerate on how the institution monitors and communicates the progress and performance of students through the duration of the course/programme? Provide an analysis of the students results/achievements (Programme /course wise for last four years) and explain the differences if any and patterns of achievement across the programmes/courses offered.

Each student will know the marks obtained in the internal exams as the scripts are distributed in the class. The details of the marks are also communicated to the parents by sending them the details through post. Every month the attendance details will be displayed to the students and those who have lesser attendance is counseled by their counselors. These details are also communicated to the parents. The college has a system where the faculty posts the attendance everyday through software. If any student is absent to the class, a message is sent to the parent through SMS. Through the counseling system which is followed in the college, students will know about their progress timely and they are advised to take corrective measures.

Result Analysis Programme /course wise for last four years: UG

Result Analysis of 2013 Passed Out Batch

Year & Sem	Department	Students Appeared	Passed	Pass %	Year & Sem	Department	Students Appeared	Passed	Pass %	Year	Department	Pass %
1 Year	CE	59	16	27.11						1 Year	CE	27.11
	EE	60	33	55					EE		55	
	EC	120	52	43.33					EC		43.33	
	CS	57	12	21.05					CS		21.05	

NAAC - SELF STUDY REPORT

2_1	CE	64	29	45.31	2_2	CE	64	34	53.12	2 Year	CE	49.21
	EE E	66	30	45.45		EE E	67	45	67.14		EE E	56.29
	EC E	13 0	62	47.69		EC E	13 1	62	47.32		EC E	47.50
	CS E	62	29	46.77		CS E	63	27	42.85		CS E	44.81
3_1	CE	61	35	57.37	3_2	CE	61	39	63.93	3 Year	CE	60.65
	EE E	63	39	61.90		EE E	64	47	73.43		EE E	67.66
	EC E	12 8	78	60.93		EC E	12 8	80	62.5		EC E	61.71
	CS E	61	40	65.57		CS E	60	32	53.33		CS E	59.45
4_1	CE	61	44	72.13	4_2	CE	58	33	56.89	4 Year	CE	64.51
	EE E	64	50	78.12		EE E	64	47	73.43		EE E	75.77
	EC E	12 8	67	52.34		EC E	12 8	94	73.43		EC E	62.88
	CS E	60	26	43.33		CS E	60	55	91.66		CS E	67.49

Result Analysis of 2014 Passed Out Batch

Year & Sem	Department	Students Appear	Passed	Pass %	Year & Sem	Department	Students Appear	Passed	Pass%	Year	Department	Pass%
1_1	CE	60	35	58.33	1_2	CE	59	19	32.20		CE	45.25

NAAC - SELF STUDY REPORT

	EE E	60	40	66. 66		EE E	60	25	41. 66	1 Ye ar	EE E	54. 16
	EC E	11 8	88	74. 57		EC E	11 8	74	62. 71		EC E	68. 64
	CS E	11 8	61	51. 69		CS E	11 8	58	49. 15		CS E	50. 42
	IT	59	27	45. 76		IT	59	17	28. 81		IT	37. 28
2_1	CE	67	24	35. 82	2_2	CE	67	24	35. 82	2 Ye ar	CE	35. 82
	EE E	72	30	41. 66		EE E	71	41	57. 74		EE E	49. 7
	EC E	14 1	61	43. 26		EC E	14 0	68	48. 57		EC E	45. 91
	CS E	12 4	59	47. 58		CS E	12 4	66	53. 22		CS E	50. 4
IT	59	20	33. 89	IT	58	21	36. 20	IT	35. 04			
3_1	CE	65	42	64. 61	3_2	CE	64	30	46. 87	3 Ye ar	CE	55. 74
	EE E	71	42	59. 15		EE E	71	50	70. 42		EE E	64. 78
	EC E	14 0	89	63. 57		EC E	14 0	91	65		EC E	64. 28
	CS E	11 2	69	61. 60		CS E	11 2	73	65. 17		CS E	63. 38
IT	56	38	67. 85	IT	56	31	55. 35	IT	61. 6			
4_1	CE	62	38	61. 29	4_2	CE	64	27	42. 18		CE	51. 73
	EE E	71	54	76. 05		EE E	70	30	42. 85		EE E	59. 45

NAAC - SELF STUDY REPORT

	EC E	13 8	77	55. 79		EC E	13 8	10 4	75. 36	4 Ye ar	EC E	65. 57
	CS E	12 0	92	76. 66		CS E	11 9	10 6	89. 07		CS E	82. 86
	IT	55	44	80		IT	55	48	87. 27		IT	83. 63

Result Analysis of 2015 Passed Out Batch

Year & Sem	Department	Students Appeared	Passed	Pass %	Year & Sem	Department	Students Appeared	Passed	Pass%	Year	Department	Pass%
1_1	CE	117	44	36.66	1_2	CE	118	39	28.3	1 Ye ar	CE	32.45
	EE	60	35	47.4		EE	59	29	45.7		EE	46.55
	MECH	120	39	27.1		MECH	118	32	32.2		MECH	29.65
	EC	120	107	71.6		EC	121	97	66.3		EC	68.90
	CS	118	82	47		CS	117	69	46.6		CS	46.80
	IT	58	24	38.90		IT	57	24	23.7		IT	31.30
2_1	CE	140	63	30.5	2_2	CE	145	66	46.2	2	CE	38.35
	EE	71	41	47.80		EE	71	45	54.9		EE	51.35
	MECH	142	42	23.90		MECH	139	63	26.7		MECH	25.3
	EC	142	107	52.10		EC	143	95	48.9		EC	50.5

NAAC - SELF STUDY REPORT

	CE	129	82	47.80		CE	129	70	48.3	Ye ar	CE	48
	IT	60	14	22.8		IT	62	19	34.6		IT	28.7
3_1	CE	141	101	59	3_2	CE	141	79	52.2	3 Ye ar	CE	55.6
	EE	72	27	61.4		EE	72	50	56.5		EE	58.9
	ME	138	52	40.8		ME	136	71	46.4		ME	43.6
	EC	143	114	66.9		EC	142	107	60.4		EC	63.6
	CS	127	105	70.6		CS	126	91	52.9		CS	61.7
	IT	61	33	72.5		IT	61	30	45		IT	58.7
4_1	CE	134	94	75	4_2	CE	133	103	74.2	4 Ye ar	CE	74.6
	EE	72	42	76.1		EE	72	51	56.7		EE	66.4
	ME	126	81	69		ME	125	97	70.4		ME	69.7
	EC	142	100	64.7		EC	142	102	72.4		EC	68.5
	CS	125	87	66.9		CS	123	90	80		CS	73
	IT	60	24	66		IT	60	48	78.4		IT	72.2

Result Analysis of 2016 Passed Out Batch

NAAC - SELF STUDY REPORT

Year & Sem	Department	Students Ann	Students Passed	Pass %	Year & Sem	Department	Students Ann	Students Passed	Pass %	Year	Department	Pass %
1_1	CE	117	44	37.60	1_2	CE	118	39	33.05	1 Year	CE	35.32
	EE	60	35	58.33		EE	59	29	49.15		EE	53.74
	ME	120	39	32.5		ME	118	32	27.11		ME	29.80
	EC	120	107	89.16		EC	121	97	80.16		EC	84.66
	CS	118	82	69.49		CS	117	69	58.97		CS	64.23
	IT	58	24	41.37		IT	57	24	42.10		IT	41.73
2_1	CE	140	63	45	2_2	CE	145	66	45.51	2 Year	CE	45.25
	EE	71	41	57.74		EE	71	45	63.38		EE	60.56
	ME	142	42	29.57		ME	139	63	45.32		ME	37.44
	EC	142	107	75.35		EC	143	95	66.43		EC	70.89
	CS	129	82	63.56		CS	129	70	54.26		CS	58.91
	IT	60	14	23.33		IT	62	19	30.64		IT	26.98
3_1	CE	141	101	71.63	3_2	CE	141	79	56.02	3 Year	CE	63.82
	EE	72	27	37.5		EE	72	50	69.44		EE	53.47

NAAC - SELF STUDY REPORT

	ME CH	13 8	52	37. 68		ME CH	13 6	71	52. 20	4 Ye ar	ME CH	44. 94
	EC E	14 3	11 4	79. 72		EC E	14 2	10 7	75. 35		EC E	77. 53
	CS E	12 7	10 5	82. 67		CS E	12 6	91	72. 22		CS E	77. 44
	IT	61	33	54. 09		IT	61	30	49. 18		IT	51. 63
4_1	CE	13 4	94	70. 14	4_2	CE	13 3	10 3	77. 44		CE	73. 79
	EE E	72	42	58. 33		EE E	72	51	70. 83		EE E	64. 58
	ME CH	12 6	81	64. 28		ME CH	12 5	97	77. 6		ME CH	70. 94
	EC E	14 2	10 0	70. 42		EC E	14 2	10 2	71. 83		EC E	71. 12
	CS E	12 5	87	69. 6		CS E	12 3	90	73. 17		CS E	71. 38
	IT	60	24	40		IT	60	48	80		IT	60

Result Analysis Programme /course wise for last four years: PG

Result Analysis of 2013 Passed Out Batch

Year & Sem	Department	Students Announced	Passed	Pass %	Year & Sem	Department	Students Announced	Passed	Pass %	Year	Department	Pass %
1_1	M.Tech (CSE)	33	19	57. 57	1_2	M.Tech (CSE)	30	25	83. 33	1 Ye a		70. 45
	M.Tech (DECS)	17	9	52. 9		M.Tech (DECS)	17	13	76. 47			64. 70

NAAC - SELF STUDY REPORT

				4						r	
	M.Tech (PE)	18	15	83.33		M.Tech (PE)	17	12	70.58		76.95
	MCA	17	11	64.70		MCA	17	16	94.11		79.40
2_1	MCA	17	13	76.47	2_2	MCA	16	16	100	2 Year	88.23
3_1	MCA	16	10	62.5							62.5

Result Analysis of 2014 Passed Out Batch

Year & Sem	Department	No. of Students Appeared	Passed	Pass %	Sem	Department	Students		Pass%	Year	Department	Pass%
							Appeared	Passed				
1_1	M.Tech (CSE)	29	25	86.2	1	M.Tech (CSE)	27	23	85.18	1 Year	M.Tech (CSE)	85.69
	M.Tech (DECS)	12	11	91.66		M.Tech (DECS)	9	3	33.33		M.Tech (DECS)	62.49
	M.Tech (PE)	17	11	64.70	2	M.Tech (PE)	17	8	47.05		M.Tech (PE)	55.87
	M.Tech (THE R)	5	3	60	M.Tech (THE R)	4	3	75	M.Tech (THE R)		67.5	
	M.Tech (STR)	14	3	21.4	M.Tech (STR)	1	1	7.1	M.Tech (STR)		14.	

NAAC - SELF STUDY REPORT

	U)			42		U)	4		4		U)	28
	MCA	5	2	40		MCA	5	5	100		MCA	70
2_1	MCA	5	3	60	2 - 2	MCA	5	3	60	2 Y e a r	MCA	60

2.6.3 How are the teaching, learning and assessment strategies of the institution structured to facilitate the achievement of the intended learning outcomes?

Teaching strategies:

- To follow the academic calendar given by the university.
- To prepare the course file and plan the lecture and tutorial hours as per schedule given by concerned department.

Learning strategies:

- To conduct the assignments in theory subjects and arrange the seminars by the students
- To organize paper presentations and conduct group discussions.
- To arrange industrial tours to give practical knowledge
- To assign mini projects

Assessment strategies:

- Internal and external examinations in both theory and practical subjects

2.6.4 What are the measures/initiatives taken up by the institution to enhance the social and economic relevance (student placements, entrepreneurship, innovation and research aptitude developed among students etc.) of the courses offered?

The initiatives taken up by the institution to enhance the social and economic relevance of the courses offered are

- Exposing the students to current market requirements by the interaction with HRs of reputed organizations.
- Organizing workshops and seminars to acquire the latest technologies.

- Encouraging innovation in research aptitude in students to undertake, participate in Research Projects, National Seminars & Conferences.
- Organizing intensive training programs in association with various companies like Infosys Campus Connect, Microsoft etc.,

2.6.5 How does the institution collect and analyze data on student performance and learning outcomes and use it for planning and overcoming barriers of learning?

The student performance is measured by various indicators.

The students who have cleared their degree in 4 years and the pass percentage in each year in comparison with the other affiliated colleges is collected by the college through the data sent by the university and also through university web site. This data is used to identify the difficult subjects and extra classes are conducted in these subjects for the next batches to improve the pass percentage. The data of students who have joined higher studies and working presently is maintained by the individual departments. The data is also collected through Alumni so as to identify the needs of the industry from fresh engineers.

Another indicator is the campus placements, the details of eligible candidates and conversion ratio data is maintained by the Training and placement cell. Any barriers in this regard can be overcome by giving special training. For example a specific company may be focusing more on aptitude and communication skills of the students. Then intensive training will be provided to the students in the required modules to cater to the needs of the company.

The paper presentations made by the students in various seminars and prizes won by them is another performance indicator.

2.6.6 How does the institution monitor and ensure the achievement of learning outcomes?

The achievement of learning outcomes is monitored by institution in the following way:

- Class monitoring committees.
- System of continuous evaluation in both theory and lab subjects.
- Exit feedback, alumni feedback.
- Analysis of performance in theory and lab exams.
- Achievements of students in extracurricular activities.

2.6.7 Does the institution and individual teachers use assessment/ evaluation outcomes as an indicator for evaluating student performance, achievement of learning objectives and planning? If, yes “provide details on the process and cite a few examples.

Yes, the institution and individual teachers use assessment and evaluation as an indicator for evaluating students' performance etc. The teachers assess and identify the areas in which students are found weak. The teachers can arrange the Bridge Courses for the students plan and change their teaching methodology. The assessment and evaluation enables the teachers to assist the students to elect their optional and special subjects so that they can plan their careers of choice.

For example for a particular subject like Electrical Machines in Electrical Engg. Stream, the objective is to prepare the student to succeed in competitive exams held by companies like Vijai Electricals, or Siemens or Lanco power who visit the college for campus recruitment. The performance of the students in this selection process is an indicator of whether the objective is achieved or not. Good number of students from Electrical engineering were selected by Petrofac, which indicates that the objective is met.

CRITERION III:

RESEARCH, CONSULTANCY AND EXTENSION
TEACHING-LEARNING AND EVALUATION

3.1 Promotion of Research

3.1.1 Does the institution have recognized research center/s of the affiliating University or any other agency/organization?

As on date the Institution has not officially been recognized as a Research Center of JNTUK. However, some of the Professors working in this institution have been supervising Research Scholars allotted by JNTUK, for their Research Degrees making use of the facilities in the Institution.

3.1.2 Does the Institution have a research committee to monitor and address the issues of research? If so, what is its composition? Mention a few recommendations made by the committee for implementation and their impact.

Since the Institution is extending Research Facilities as well as Consultancy Services, each Branch separately and the Institution as whole have Research Committees. The following table shows the Members of the Research Committee from each Department. They meet periodically to review and plan the works relating to research and consultancy

S. No	Name of the Department	Name of the Faculty	Designation
1.	ECE	R.Sunitha	Professor
		S.A.Rehman	Assoc Professor
		S.V.Rama Rao	Assoc Professor
		M.S.S.S.Srinivas	Assoc Professor
		V.Srinivasa Rao	Assoc Professor
2.	Civil	Ch. Ch.Srinivas	Assoc Professor
		Ch.Veeratham Kumar	Asst. Professor
		N.Madhava	Asst. Professor
3.	CSE ,IT&MCA	Dr.K.V.SambasivaRao	DEAN
		Dr.V.Suryanarayana	Professor
		Mr.V.Sudhakar Rao	Assoc Prof
		Mr. B.MouleswaRao	Assoc Prof
		Mr.B.B.K.Prasad	Assoc Prof
		Mr.Ch.Murali Krishna	Assoc Prof

NAAC - SELF STUDY REPORT

4.	EEE	Dr. N.Sambasiva Rao	Professor & HOD
		Mr. R. Raghunadha sastry	Assoc Professor
		Mr. K. Venkata kishore	Assoc Professor
		Mr. I. Prasanna kumar	Assistant Professor
5.	MECH	Dr.C.Naga Bhaskar	Professor
		R.Vijay Krishna	Associate Professor
		T.Rajendra Prasad	Associate Professor
		K.Vidya	Associate Professor
		V.Sri Rama Murthy	Associate Professor
6.	S & H	Dr.C.V.Nageswara rao	Professor
		Dr.K.Krishna rao	Associate Professor
		Dr.K.Veera Badra Reddy	Associate Professor

Objectives of Institution's Research and Consultancy Cell (IRCC)

The main objectives of the Institution's Research and Consultancy Cell are

- To inculcate and promote research activity among the faculty
- To facilitate the faculty to apply for Research projects from various funding agencies
- To help and encourage the faculty to publish their Research works
- To help the faculty in getting required facilities from the Management of the Institution

Recommendation of the Committee to the Institution

The Committees of various Departments request the Management to address the issues of research. The following are the recommendations made by the committee to the management:

- To provide Budget for new Research facilities
- To request the Management to obtain UGC 12(B) as the Institutions has already having UGC 2(f) as it will facilitate to apply for Major and Minor Research Projects
- To obtain qualitative and quantitative improvement in research and publication
- To improve consultancy activities
- To encourage faculty members for higher studies
- To organize Faculty meeting in each Branch at least once in a month to encourage the faculty to take up research and to review their progress
- To motivate teachers for attending FDP/Seminar/Symposia/Workshop and conferences
- To try for collaborative work and development at national and international levels
- To enhance interaction with premier institutions

Implementation of the Recommendations:

- Heads of the Departments to include the research requirements in the budget
- Conference Proceedings and Publication in SCI Journals are given weightage in Faculty performance Appraisal
- Expenses related to uploading of proposals in various funding agencies are paid by Management
- The Management also started the process to obtain 12 (B) of UGC
- The Principal has appointed Sri B.V.S.Prasad as Coordinator for Entrepreneurship cell and also entrusted him for inviting renowned Rural Engineering Researchers and industrial giants.
- Many faculty members have registered themselves for a research degree in various institutions and Universities.

3.1.3 What are the measures taken by the institution to facilitate smooth progress and implementation of research schemes/ projects?

- Autonomy to the principal investigator
- Timely availability or release of resources
- Adequate infrastructure and human resources
- Time-off, reduced teaching load, special leave etc. to teachers
- Support in terms of technology and information needs
- Facilitate timely auditing and submission of utilization certificate to the funding authorities

The Principal Investigator is solely responsible and independent in making decisions regarding planning of research project or research consultation. Except for the part that legitimately belongs to Institution, the PI is absolutely free to plan the allotment of funds received. However, the Institution will always release the required funds from those received from the financing institution.

Following are some of the measures taken by the Institution

- It is mandatory that PI should open a separate Bank account for each of the projects he is undertaking.
- The Institution / Principal, in whose name the funds are generally released by the funding institution, releases the required funds to PI on his request. However, it is mandatory for the PI to provide the bifurcation of the requested funds among different Major Heads of expenditure.
- The Institution helps the PI to obtain the permissions required to import

NAAC - SELF STUDY REPORT

the required equipment, in case it has to be imported from a foreign nation.

- The work load is adjusted to the PI on the request of PI to allow him to carry out the research work within the sanctioned time by the funding agency.
- The PI is granted Special Casual Leave, in addition to the existing leave, up to a period of 15 days in a year to visit other institutions / Libraries / Experts in the field / attending Seminars / Conferences
- The Institutions grants financially aid, to a maximum of Rs. 50,000/- to the PI, in case he is presenting any paper in the Research area of his project in any foreign country.

3.1.4 What are the efforts made by the institution in developing scientific temper and research culture and aptitude among students?

The Institute considers students career as priority. Hence it encourages the students towards gaining knowledge based education and thus endeavors to develop scientific temper and research culture. The following are the efforts made by the Institution:

- Regular intramural Tech Fests are organized by the Institution separately for each branch and all the branches together.
- Organizes Tech Fests for Engineering Colleges situated in the State of Andhra Pradesh
- The institution has made it compulsory for all the Branches to organize events at least one workshop / paper presentation/ Seminars inviting other colleges for participating in these events.
- Prizes for the best paper presentations in the Institution are sponsored by the Management of the Institution.
- On the eve of College Day, the Management appreciates the students Who have participated in the Paper Presentations / Tech Festivals conducted by other institutions and secured prizes

Library and Digital Library are equipped with latest Technical Journals for updating the day to day improvements in various branches of engineering.

Publications by Faculty and Students :

NAAC - SELF STUDY REPORT

S. No	BRANCH	Event	2012-13	2013-14	2014-15	2015-16
1	MECH H	No of Internal Symposia Conducted	-	1	1	-
2		No of Papers presented in Internal symposia	-	56	62	-
3		No of students participated in internal symposia	-	112	124	-
4		No of workshops conducted	-	2	3	2
5		No of project expos conducted	-	3	4	4
6		No of projects exhibited	-	4	3	4
7		No of students participated in project expos	-	5	3	3
8		No of projects submitted to funding agencies	-	-	-	1
10		Number of publications by the faculty in National/International conferences	-	-	2	-
11		Number of publications by the faculty in National/International Journals	-	-	-	74
1		EEE	No of Internal Symposia Conducted	1	1	-
2	No of Papers presented in Internal symposia		10	15	-	-
3	No of students participated in internal symposia		15	18	-	-
4	No of workshops		1	1	1	2

NAAC - SELF STUDY REPORT

		conducted				
5		No of project expos conducted	1	1	1	1
6		No of projects exhibited	1	1	1	1
7		No of students participated in project expos	4	5	6	6
8		No of projects submitted to funding agencies	-	-	-	1
9		Funds received from different agencies	-	-	-	-
10		Number of publications by the faculty in National/International conference	4	2	5	2
11		Number of publications by the faculty in National/International Journals	3	1	4	21
12		Number of publications by the students in National/International conferences	-	-	2	2
13		Number of publications by the students in National/International journals	-	-	1	3
1	CIVIL	No of Internal Symposia Conducted	1	1	1	1
2		No of Papers presented in Internal symposia	20	25	35	40
3		No of students participated in internal symposia	100	125	200	250
5		No of project expos	1	1	1	

NAAC - SELF STUDY REPORT

		conducted				
6		No of projects exhibited	8	15	15	25
7		No of students participated in project expos	45	75	60	120
11		Number of publications by the faculty in National/International Journals	2	3	2	1
12		Number of publications by the students in National/International conferences	3	6	10	12
1	CSE, MC A & IT	No of Internal Symposia Conducted	-	-	1	1
2		No of Papers presented in Internal symposia	-	-	25	15
3		No of students participated in internal symposia	180	170	-	240
4		No of workshops conducted	-	-	-	2
8		No of projects submitted to funding agencies	-	-	3	3
9		Funds received from different agencies	-	-	1	1
10		Number of publications by the faculty in National/International conferences			12	12
11		Number of publications by the faculty in National/International Journals	2	14	6	6
13		Number of publications by the students in	-	18	36	33

NAAC - SELF STUDY REPORT

		National/International journals				
1	ECE Dept	No of Internal Symposia Conducted	-	1	1	1
2		No of Papers presented in Internal symposia	-	15	10	10
3		No of students participated in internal symposia	-	120	-	180
4		No of workshops conducted	1	2		5
5		No of project expos conducted	1	1	1	2
6		No of projects exhibited	5	7	6	34
7		No of students participated in project expos	6	10	15	15
8		No of projects submitted to funding agencies	-	-	-	4
10		Number of publications by the faculty in National/International conferences	1		3	3
11		Number of publications by the faculty in National/International Journals	7	13	5	2
12		Number of publications by the students in National/International conferences	1	-	-	1
13		Number of publications by the students in National/International journals	8	8	-	-

NAAC - SELF STUDY REPORT

3.1.5 Give details of the faculty involvement in active research (Guiding student research, leading Research Projects, engaged in individual/collaborative research activity, etc.

Faculty is actively involved in guiding student projects both at UG and PG level. The practice of publishing papers by students and faculty members of various departments in national & international conferences/ seminars and journals is a continuous process.

Research Projects

Several faculty members from all the departments have submitted research proposals as principal investigators to national funding agencies for grants which are awaited.

Engaged in individual/collaborative research activity

Faculty members are actively involved in pursuing research work and publishing their findings in journals. All the professors are engaged in active research. The list of senior faculty members who guide PhD scholars is given below.

S.No	Name of the Faculty	Designation	No of Ph.D Scholars Guided
1	Dr.C.Naga Bhaskar	Professor	2
2	Dr.K.V.Sambasiva Rao	Professor	4

3.1.6 Give details of workshops/ training programmes/ sensitization programmes conducted/organized by the institution with focus on capacity building in terms of research and imbibing research culture among the staff and students.

The institution organizes periodical faculty development programs, department wise workshops, guest lectures, industrial visits, seminars, conferences and technical projects with focus on competence building and to inculcate research ambience both in students and staff.

NAAC - SELF STUDY REPORT

Following programmes are conducted / organized by the institution.

S.No	Department	Year	Seminar/Conference /Workshop	Source of Funding	Resource Person
1	ECE	2012	One Day Workshop On VLSI & Embedded Systems	Management /Self Financed	Dr.M.B.SRINIVAS, Professor & Dean, Birla Institute of Technology,, Hyderabad campus
2		2012	Robotryst 2013	Management /Self Financed	Mr. Uma Shankar Yadav and Mr.Nitish Bhardwaj
3		2013	A 2-Day Workshop on VHDL	Management /Self Financed	MCN Technology
4		2013	Inaugural of IETE Student Forum	Management /Self Financed	Dr.M.Kama Raju, Professor & HOD ECE, Gudlalleru Engineering College,
5		2013	Guest Lecture on “Advances in VLSI Design & Challenges”	Management / Self Financed	Dr.M.Kama Raju, Professor & HOD ECE, Gudlalleru Engineering College,
6		2013	Faculty Interaction Programme	Management / Self Financed	Dr.M.Kama Raju, Professor & HOD ECE, Gudlalleru Engineering College,
7		2014	Guest Lecture on Trends in VLSI Design and DSP-VLSI Architectures	Management / Self Financed	Dr.N.S.Murthy, Professor, ECE Department, NIT Warangal
8		2015	International Workshop On	Management /	Mr.Anurag Thivari

NAAC - SELF STUDY REPORT

			Humanoid Duties	Self Financed	
9		2015	Two Day Workshop On Low Power VLSI using Tanner EDA	Management / Self Financed	Mr.S.Manoj & T.Sundar
10		2016	Three Day Workshop On "PCB Design"	Management / Self Financed	Mr.U.Kumar
11		2016	Three Day Workshop On "Embedded Systems"	Management / Self Financed	Mr.Govind Rao,Director , Microlink
12		2012	Cloud Computing	Management	Mr.K.Veera Babu
13		2012	Career Development	Management	Mr.P.Prasad Babu
14		2012	Advanced Topics on Object Oriented Programming	Management	Mr. B.Pratap
15		2013	Android Applications	Management	Mr. Q.Glerett
16		2013	NPTL	Management	Mr.Md.Naheed
17		2014	Big Data	Management	Dr.K.V.Sambasiva Rao
18		2014	Latest Technologies in IT Industries	Management	Dr.K.V.Sambasiva Rao
19		2016	Seminar on Ethical Hacking.	Management	Mr.Ch.Sai Sateesh
20		2016	Seminar on SAP.	Management	Mr.M.Ram Mohan
21		2016	Seminar on Malware Technology.	Management	Mr.Ch.Sai Sateesh.
22		2016	3 days Workshop on Hadoop and	Management	Mr.Veer Anjaneya Nagaraju,Big

NAAC - SELF STUDY REPORT

			Big Data analytics.		data minds
23		2016	3 days Workshop on IOT.	Management	Mr.Madhu Parvathaneni Entrepreneur / IoT Developer ORL Industries
24	EEE	2013	Seminar on Advanced Power Systems	NRIIT	B.P Singh
25		2014	Seminar on Renewable Energy Sources	NRIIT	Sri. Kamaraju
26		2014	Seminar on Advanced Power Electronic Drives	NRIIT	Smt.Surya Kalavathi
27		2015	Work shop on MATLAB/SI MULINK	NRIIT	V. Naresh
28		2016	Work Shop on Supervisory Control	NRIIT	G.Vinod Kumar
29	MECH	2015	Career Prospectus through GATE	NRIIT	Mrs.Ch.Navata
30		2016	Career Opportunities for Mechanical Engineers in Germany	NRIIT	Mr.Jamindar Buddiga

3.1.7 Provide details of prioritized research areas and the expertise available with the institution.

The institution is strengthened with qualified and well experienced faculty. Based on research specializations, research groups or individuals take up projects and publish papers in reputed journals. Following are the details for the research areas and expertise of the faculty members of various departments.

NAAC - SELF STUDY REPORT

S.No	Name of the Department	Area of Specialization/Research	Expertise available
1	ECE	Microwave Engineering	R. Sunitha
			Abdul Rahiman.Sk
2		Instrumentation Control Systems	S.V. Rama Rao
3		Communications	V. Srinivasa Rao
			A.Satti Babu
			B.Y.Gopinath
4		Communications & Radar Systems	M.S.S.S.Srinivas
5		Embedded Systems	M. Suneel
			Y. Arpitha
			K. Prathyusha
			G. Prashanthi
6		DECS	B. Swathi
			G. Srinivas Babu
			Ch. Swathi
	D. Ravi Shankar		
	M. Mahesh		
	A. Brahmani		
	T. Nistchala		
	Y. Sravanthi		
7	VLSI System Design	P. Venu Gopal	
		Sk. Ashraf Ali	
		M.P. Kishore	
		R. Upendar Rao	
		Ch. Swapna	
		Ch. Uday Bhaskar	
		N. Srikanth	
		P. Amrutha Valli	
		J. Sowjanya	
8		Systems & Signal Processing	P.B. Sudha Rani
		B. Sravani	
9	VISI & Embedded Systems	P.R. Bhavana	
		V. Bhavani	
		T. Sumalatha	
10	Telemetric	G. Sai Keerthana	
11	ECE	K.Thanuja	
12	CSE	Decision Support Systems	Dr. K. V. Sambasiva Rao
13		Software Systems	Dr. Y. Sushma
14		Software Engineering	Dr. V. Suryanarayana

NAAC - SELF STUDY REPORT

			Mr. A. Hari Krishna	
15	Big Data		Mr. B. B. K. Prasad	
			Mrs. M. Aruna Safali	
			Mrs. S. Sivaleela	
			Ms. Md. Arsha Sultana	
16	Cloud Computing		Mr. K. Vamsi Krishna	
			Mr. P. Raghuv eer	
17	Software Reliability		Mr. Ch. Surya Kiran	
18	Data Mining		Mrs. D. Suneetha	
			Mrs. P. Venkata Anusha	
			Mr. R S V V Prasada Rao	
			Mr. M V P Uma	
			Maheswara Rao	
			Mrs. T. Saadiya	
			Ms. Y. Kalyani	
			Mrs. B Naga Chandrika	
19	Network Security		Mr. G. Karunakar	
			Mr. B. Dasaradha Ram	
20	Computer Networks & Big Data		Mrs. J. Praveena	
			Mr. E. Karunakar	
			Mr. K. Mahendranath	
21	Computer Networks		Ms. K. Radha	
			Mrs. M. Seshu Bhavani	
			Ms. P. Sai Geetha	
22	Computer Science & Engg		Mr. D. Anand Avinash	
			Mrs. T. Radhika	
23	Mobile Computing		Mr. P. Narendra Babu	
24	Network security		Mr. V.Sudhakara Rao	
			Mrs. M.B.Anusha	
25	Data mining		Mr. Ch.V.Murali Krishna	
26	Operating system		Mrs. M.Praveena	
27	Database Management System		Mrs. S. Nahida	
			Mr.Y.N.S.Satyanarayana	
28	Computer Organization		Mrs.CH. SanthaKumari	
29	Computer Networks		Mrs.P.Naga Lakshmi	
30	EEE	Electrical Power Systems	Dr.N.Sambasiva Rao	
31		Power Systems		R.Raghunadha Sastry
				S. Bhavani
				I. Prasanna Kumar
			MA. Salma	

NAAC - SELF STUDY REPORT

			M.Tejaswini	
32		Power Electronics	K. Venkata Kishore B. Edukondalu Y.Lalitha Kameshwari Ch. Sabitha	
33		Power & Industrial Drives	M.Padma	
34		Power Electronics & Drives	S.Ramyaka N.M.Subhani P.Sudha rani P.Vidhya	
35		Control systems	V.Lalitha	
36	MTECH	Thermal Engineering	Dr. C. Naga Bhaskar Mr. M. Mahesh Babu Mr. Sk. Abdul Azeez Mr. Ch. Naveen Kumar Ms. A. Madhuri Mr. Venkateswara Rao Sarnal Mr. N.Shanmukh Veerendra Mr.K.Naga Raju	
37		CAD/CAM	Mr. Raffi Mohammed Mr. R.Vijay Krishna Mr. K. Mani Kumar Mr. Md. Nazeer	
38		IEM	Mrs. K.Vidya	
39		Production Engg	Mr. G.S.R.N Malleswara Rao Mr. T. Rajendra Prasad	
40		Machine Design	Mr. V. Srirama Murthy Mr. V.Mohan Manoj Gupta Mr. K. Venkateswara Reddy Mr. Y. Venkatesh Mr. N. Syam Babu	
41		Mechatronic	Mr. O N V P Bhagavan	
42		Material Technology	Mrs. P. Bharathi	
43		Industrial Metallurgy	Mrs. K. Anusha Raj	
44		Marine Engg.	Mr. N. Raja Sekhar	
45		CIVIL	Structural Engineering	CH.CH.SRINIVAS Ch.Veerotham kumar

NAAC - SELF STUDY REPORT

			N.Madhava
			M. Krishna Kumar
		Environment Engineering	Md. BiBi Jarina
46	S & H	Economics	Dr.Mvn Sarma
47			Dr.D.Kailasa Rao
48		Chemistry	Dr. C.V.N. Rao
			M.S.Swarnapushpa
			G.Purnachandrarao
49		Physics	Dr.K.V.B.Reddy
			Dr.L.Vijayalakshmi
			Ch.Chandrakala
			G.Krishnapriya
			Y.Suryanarayana
50		Mathematics English	M.Babu Prasad
			Dr.K.Krishna Rao
			D.Srinivasulu
			K.V.Pavan Kumar
			Ch.S.Subrahmanyam
			D.Vijayakumar
			P.Rajasekhar
	A.Sombabu		
	P.Vijayakumar		
	Y.Madhavi		
	R.Sridevi		
	A.Neerajapadma		
	D.Radhika		
	T.Sreelatha		
	G.Sridevi		
I.Datta Sravani			
M Anuradha			
T.Vijaya Sri			
B.Satish			
B.V.S.Prasad			
G.Edward Raju			
51		Environmental Sciences	G.Alekhyia
52		Accounts	D.Naga Rajesh
53	MCA	Data Mining	B.Mouleswararao
			K.Chandramouli
		Soft ware Enginnering	K.Udayasree
		Computer Networks	L.Kavitha
		Software Testing	G.Sireesha

NAAC - SELF STUDY REPORT

3.1.8 Enumerate the efforts of the institution in attracting researchers of eminence to visit the campus and interact with teachers and students?

The college organizes National Conferences, Symposiums, Workshops and Seminars as the important tools of collaboration where experts from academia and industries are invited to deliver special lectures and interact with teachers and students.

List of eminent personalities and researchers who visited the institution

- Various short-term training programs for faculty are organized, for which experts are invited to deliver special lectures and make deliberations on important issues, teaching methodologies, journal publications and research works
- The faculty members are encouraged to collaborate with elite professors of reputed institutions for their research activities
- External experts are regularly invited by the college to enlighten the research scholars and students on advanced and emerging trends in research areas.

S.NO	Department	Name of the Resource Person	Beneficiaries	Date of Visit
1	ECE	Dr.Madhumati HOD,ECE Dhanekula Institute of Engineering & Technology	IV ECE Students	28-02-2013
2	ECE	Dr.M.KamaRaju HOD,ECE, IETE Chairman, Vijayawada	Inaugural of IETE, Guest Lecture II & III ECE Students	29-06-2013
3	ECE	Mohammed Naheed Lead Campus Relations Officer Classle Pvt Ltd,Chennai	IV & III ECE Students	29-07-2013
4	ECE	R.Ravi Kumar Program Manager Tech-Mahindra Pvt Ltd,Hyd	Recent Trends in IT Industry	26-12-2013
5	ECE	Dr.N.S.Murthy HOD,ECE National Institute of Technology Warangal	Guest Lecture on “ Advancements in Electronics Engineering”	05-07-2014

NAAC - SELF STUDY REPORT

6	ECE	Dr. T. V. Rao HOD, ECE IETE Chairman, Ele. Sir C.R.Reddy College of engineering, Eluru	Beneficiaries of IETE membership	24-09-2016
7	CSE,IT & MCA	Mr.Veer Anjaneya Nagaraju,Big data minds	3 days Work shop on Hadoop and Big data analytics	12-09-2016 to 14-9-2016
8	CSE,IT & MCA	Mr.Madhu Parvathaneni Entrepreneur / IoT Develop ORL Industries	3 days Work shop on IOT.	01-08-2016 03-08-2016
9	CSE,IT & MCA	Mr.M.Ram Mohan	Seminar on SAP	02-04-16
10	CSE,IT & MCA	Mr.Ch.Sai Sateesh.	Seminar on Malware Technology	04-032016to 05-03-2016
11	CSE,IT & MCA	Mr.Ch.Sai Sateesh	Ethical Hacking	05-10-2015
12	CSE,IT & MCA	Mr.K.V.SambasivaRao	Big Data	19-04-2014
13	CSE,IT & MCA	Mr. K.V.SambasivaRao	Latest Technologies in IT Industries	21-04-2014
14	CSE,IT & MCA	Mr. Q.Glerett	Android Applications	19-07-2013 to 20-07-2013
15	CSE,IT & MCA	Mr.Md.Naheed	NPTL	29-7-2013
16	CSE,IT & MCA	Mr.P.Prasad Babu	Career Development	10-07-2012
17	CSE,IT & MCA	Mr. B.Pratap	Advanced Topics on Object Oriented Programming	27- 09-2012
18	CSE,IT & MCA	Mr.K.Veera Babu	Cloud Computing	31- 01-2012
19	MECH	Dr. K. Sivaji Babu Professor, PVPSIT	MECH	07-03-2013
20	MECH	Mr. Suhas Rane Director, Siemens India	MECH	23-08-2014

NAAC - SELF STUDY REPORT

21	MECH	Dr. P. Udaya Bhaskar Professor, JNTU College of Engineering Kakinada	MECH	06-09-2015
22	MECH	Prof. S. S. Rao Professor, University of Miami, Coral Gables, USA	MECH	04-01-2016
23	CIVIL	Prof. S. S. Rao Professor, University of Miami, Coral Gables, USA	CIVIL	04-01-2016
24	CIVIL	Prof. B.P. Rao Dean, Consultancy, VRSEC	CIVIL	15-09-2015
25	CIVIL	K.V.M RAO. Managing director, Prefabricated structures, vizag	CIVIL	15-09-2015

3.1.9 What percentage of the faculty has utilized Sabbatical Leave for research activities? How has the provision contributed to improve the quality of research and imbibe research culture on the campus?

- The college is sanctioning sabbatical leave from academic year 2016 for the faculty to attend seminar/workshops/conferences and to pursue their Ph.D through QIP.
- Mr. P. Surendra Varma, Assistant Professor of CSE Department has been granted sabbatical leave to pursue his Ph.D., at IISc, Bangalore, during May 2014.

3.1.10 Provide details of the initiatives taken up by the institution in creating awareness/advocating/transfer of relative findings of research of the institution and elsewhere to students and community (lab to land)

- Seminars/conferences, workshops and projects are conducted once in a year to create research awareness among faculty and students. The college encourages faculty to attend seminars/conferences, workshops in and outside the state by providing special casual leaves. Also the registration fee is paid by the management for their presentation of research papers at national and international conferences.
- Students are encouraged to do projects from their second year itself. They are also funded by the management based on the selection committee from the Department. It is compulsory for a student to give seminars in their third year as per JNTUK

NAAC - SELF STUDY REPORT

curriculum and on project work during their final year second semester reviews.

- During technical fests and engineer's day celebrations the nearby school children are invited, enlightened them on the latest emerging technologies and create interest towards technology during their budding age itself.

The following are some interesting projects carried by our students which demonstrate their professional zeal in developing the technological work for the land.

3.2 Resource Mobilization for Research

3.2.1 What percentage of the total budget is earmarked for research?

Give details of major heads of expenditure, financial allocation and actual utilization.

For the enhancement of research, Institution has provided very good library facility with good resources such as E-journals, Print journals, Magazines and periodicals. Fully equipped laboratories have been established. About 10-15% of the annual budget i.e., approximately Rs. 3 lakhs is spent on promoting and practicing research related activities.

Some activities are listed below:

- Building and developing research infrastructure
- Collecting and procuring of research literature
- Subscribing to e-journals
- Purchase of equipment in laboratories
- Purchase of books in library
- Printing and stationary

3.2.2 Is there a provision in the institution to provide seed money to the faculty for research? If so, specify the amount disbursed and the percentage of the faculty that has availed the facility in the last four years?

“YES”. The Institution provides seed money to the extent of about 10% of its unassigned resources to promote research activity in the Institution towards purchase of equipments, contingency, travel grant, publication of papers and participation in Workshops/Seminars/Symposia etc. About 40% of the faculty on a priority basis shall be given the opportunity to utilize this facility.

3.2.3 What are the financial provisions made available to support student research projects by students?

For the student research projects, funds under research and development (provided for the college budget) will be allocated if any innovative project/model is prepared by the students under student centric activities. The departmental project committees after assessing the project proposals recommend for financial assistance to suitable project proposals. A reward is offered to the students for their international publications. TA and DA are paid to the students for their presentations of papers at prestigious institutes like IITs and NITs. Cash awards are also given for publishing of research articles in National and International journals.

3.2.4 How does the various departments/units/staff of the institute interact in undertaking inter-disciplinary research? Cite examples of successful endeavors and challenges faced in organizing interdisciplinary research.

The college R&D committee encourages faculty to undertake inter-disciplinary research. Faculty published inter-disciplinary research papers in reputable journals. A few of our faculty have applied for projects to SERB, DST etc.

3.2.5 How does the Institution ensure optimal use of various equipment and research facilities of the institution by its staff and students?

- Library facilities and its environment encourage/motivate the staff and the students to take a forward step to pursue research in their field of interest. The institute has a well-stocked library which includes the latest volumes of all relevant subjects and disciplines and the institute is always eager to purchase the new edition of books every year. The faculty and students can avail of various e-journals through digital library.
- The college and its library open a few extra hours beyond the working hours. Almost all faculty stay once or twice in a week as per their convenience, during these extra hours for research work or to help the students in their projects and research activities. Transport is provided for those who stay beyond college hours and all facilities required will be available during this period.
- All the equipment existing in the labs are periodically calibrated and made available both to faculty members and students. Similarly all available equipments are well accessible to students

NAAC - SELF STUDY REPORT

for their practical purpose. Each department has relevant infrastructure and instruments for basic research work. Internet connectivity is provided in all the departments to help them review their academic as well as research programs. The campus is connected with full fledged LAN facility with workstations in every department.

3.2.6 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facility? If 'yes' give details.

“No”. The Institute has not received any special grants or finances from industry or any other beneficiary agency for developing research facility. However, The Institute has signed MoUs with some industries and other agencies for promoting, training, research and extension activities in technical education. Also research proposals are submitted to various funding agencies in order to get funds to carry out research work.

S. No	Name of the Department	Name of faculty	Funding Agency	Project Title
1	ECE	S.V.RAMARAO	Applied to SERB	"DEVELOPING A HYBRID GRAVITATIONAL SEARCH ALGORITHM AND GENETIC ALGORITHM (HYBRID GSAGA) FOR ENHANCING THE PERFORMANCE OF SMART ANTENNA SYSTEMS".
2	CSE,IT & MCA	Dr.K.V.Sambasiva Rao	DST	“A TWO DAY NATIONAL CONFERENCE ON NEXT GENERATION COMPUTING”
3	MECH	Mr. Sampati Suresh J	DST	FABRICATION, MECHANICAL CHARACTERIZATION AND TRIBOLOGICAL (EROSIVE WEAR)
4	EEE	Dr.N.Sambasiva Rao	DST	“ANALYSIS OF POWER SYSTEM ISSUES USING FACTS DEVICES”

NAAC - SELF STUDY REPORT

3.2.7 Enumerate the support provided to the faculty in securing research funds from various funding agencies, industry and other organizations. Provide details of ongoing and completed projects and grants received during the last four years.

With great thrust on creating and sustaining research culture among the stakeholders in the campus, the College provides all the possible support, systems and encouragement. The institute has several senior faculty members with vast research experience. They guide other faculty members in preparing the research proposals. Subsequently, the research proposals are sent to various funding agencies for approvals. The Department of CSE has received fund for conducting International Conference.

Sl.No	Name Of Faculty	Project Description	Funding Agency	Status of grant received
1	Dr.K.V.Sambasiva Rao	To conduct a two day national conference on next generation computing	DST	Amount Sanctioned (Rs.1,00,000)

3.3 Research Facilities

3.3.1 What are the research facilities available to the students and research scholars within the campus?

Computer with internet facility is provided to the faculty who are doing research. The college subscribes to both national and international journals in various fields. All departmental laboratories, library, internet and other infrastructural facilities are available for each student. On demand, each student will be given a separate computer with adequate software and hardware facilities to carry out his/her project work on the campus. Qualified faculty is available to guide the students on their project work. Labs and library are kept open beyond the scheduled time to complete their projects. Internet connectivity of 100 MBPS speed is available with Wi-Fi support

3.3.2 What are the institutional strategies for planning, upgrading and creating infrastructural facilities to meet the needs of researchers especially in the new and emerging areas of research?

- Institute makes separate budget allocation every year to enhance the research facilities to procure advanced equipment in laboratories and to enhance the R & D activities in the emerging areas.
- Encouragement is given to faculty for applying to funding agencies like AICTE/UGC/DST/CSIR etc., to establish research facilities.
- The Institution encourages faculty and students to attend research programs, seminars, workshops and conferences conducted in the institutions as well as in the other organization to establish interest in the research. Institute provides registration fee conveyance, special casual leave for each program.
- Library is enriched with wide range of books and journals. Online journals are also accessible to researchers.
- High band width internet facility along with Wi-Fi connectivity is provided on the campus to the faculty and students to carryout research work.
- PG students are encouraged to undertake industry based problems for their dissertation work under guidance of expert faculty.
- Faculty undertake industrial consultancy and research assignments involving research work.

3.3.3 Has the Institution received any special grants or finances from the industry or other beneficiary agency for developing research facilities?? If 'yes', what are the instruments / facilities created during the last four years.

“NO”. So far the Institution has not received any special grants or finances from the industry or other beneficiary agency for developing research facilities.

3.3.4 What are the research facilities made available to the students and research scholars outside the campus / other research laboratories?

As such, there are no research facilities outside the campus and other laboratories, but the college has signed MoU's with industries and other agencies for promoting training, research and extension activities in technical education. The Management is planning to allocate budget for the next ten years towards research

- Upgrading the existing facilities

- Collaborating with industries for research
- Harnessing talents among the faculty members
- Identifying emerging areas and possible funding agencies

3.3.5 Provide details on the library/ information resource center or any other facilities available specifically for the researchers?

The college has information resource center (Library and Digital Library) to cater to the needs of researchers.

The facilities are:

- A central library with well stocked books and journals suitable for research
- E-journals and a large collection of e-books
- Thirty High performance Personal computers with high speed internet access for digital library users.

The information resources available in the Central Library are:

Library

- Titles
- Reference books:
- Back volumes
- Volumes
- News papers
- CD titles
- Project Reports
- National Programme Technology Enhanced Learning (NPTEL) video lectures:
- e-books
- Working Hours
- Print Journals
- Journals
- Magazines

Digital Library

- No. Of Computers: 30
- Broad Band Internet Connectivity: 10MBPS

NAAC - SELF STUDY REPORT

3.3.6 What are the collaborative research facilities developed/ created by the research institutes in the college. For ex. Laboratories, library, instruments, computers, new technology etc.

The college has MOUS with different industries and foresees to have a tie up with research institutes for collaborative research in the near future.

3.4 Research Publications and Awards

3.4.1 Highlight the major research achievements of the staff and students in terms of

- Patents obtained and filed (process and product)
- Original research contributing to product improvement
- Research studies or surveys benefiting the community or improving the services
- Research inputs contributing to new initiatives and social development

The major research achievements of the staff and students are given below

- Patents obtained and filed: NIL
- Original research contributing to product improvement: Research studies benefiting the community or improving the services are made and the following publications are the result of research done by the faculty

Faculty Publications:

Department	Total NO. of national Publications	Total No. of international publications
CSE	25	71
ECE	-	31
S & H	61	59
Mech	8	66
CIVIL	6	2
MCA	-	15
IT	-	14

Student Publications:

Department	Total No of Publications
ECE	17
CSE	40
EEE	5
Mech	0
CIVIL	25

- Research inputs contributing to new initiatives and social development
Patents obtained and filed (process and product) :
Research inputs are given to the young generation to know the opportunities ahead for them and thereby raise their aspiration to achieve more and the level of expectations, as well as desire for achieving higher quality of life

3.4.2 Does the Institute publish or partner in publication of research journal(s)? If 'yes', indicate the composition of the editorial board, publication policies and whether such publication is listed in any international database?

“Yes”. The institute has partnered in publication of the research journal, International Journal for Development of Computer Science and Technology(IJDCST) Special Issue Dec- 2016 on the occasion of “A Two Day National Conference On Next Generation Computing (NCNGC – 2016) on 23rd-24th December, 2016.

3.4.3 Give details of publications by the faculty and students:

- Publication per faculty:
- Number of papers published by faculty and students in peer reviewed journals (national / international):
- Number of publications listed in International Database (for Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- Chapter in Books
- Books Edited
- Books with ISBN/ISSN numbers with details of publishers
- Citation Index
- SNIP
- SJR
- Impact factor
- h-index

The institute encourages faculty and students to publish research papers.

- Publication per faculty:

NAAC - SELF STUDY REPORT

S.No		Faculty Name	Total No. of Papers Published	No. of the journals National / International	No. of the Confer ences Nation al/ Interna tional
1	ECE	R. Sunitha	4	4	-
2		V. Srinivasa Rao	2	2	-
3		B Y Gopinath	2	2	-
4		D. Ravi Shankar	1	1	-
5		R. Upendar Rao	2	2	-
6		S. A. Rehman	1	1	-
7		K. Prathyusha	8	8	-
8		G. Srinivas Babu	2	2	-
9		M.S.S.S. Srinivas	4	4	-
10		Y. Arpitha	3	3	-
11		M. Suneel	2	2	-
1	CSE	Dr. K. V. Sambasiva Rao	47	22	20
2		Dr. Y. Sushma	14	10	1
3		Dr. V. Suryanarayana	17	11	3
4		Mr. B. B. K. Prasad	3	3	-
5		Mr. K. Vamsi Krishna	3	2	1
6		Mr. Ch. Surya Kiran	11	5	3
7		Mrs. D. Suneetha	7	6	1
8		Mr. G. Karunakar	2	2	-
9		Mrs. M. Aruna Safali	8	8	2
10		Mrs. J. Praveena	4	4	1
11		Mr. E. Karunakar	2	2	-
12		Mr. D. Anand Avinash	1	1	-
13		Mr. P. Raghuv eer	1	1	-
14		Mr. A. Hari Krishna	-	-	-
15		Mr. P. Narendra Babu	2	5	2
16		Mr. B. Dasaradha Ram	-	-	-
17		Ms. K. Radha	1	1	-

NAAC - SELF STUDY REPORT

18		Mr. K. Mahendranath Chowdary	1	1	-
19		Mrs. M. Seshu Bhavani	-	-	-
20		Mrs. P. Venkata Anusha	6	5	1
21		Mr. R S V V Prasada Rao	-	-	-
22		Mr. M V P Uma Maheswara Rao	3	2	1
23		Mrs. S. Sivaleela	1	1	-
24		Mrs. T. Radhika	1	1	-
25		Ms. Md. Arsha Sultana	1	1	-
26		Mrs. T. Saadiya	1	1	-
27		Ms. P. Sai Geetha	1	1	-
28		Ms. Y. Kalyani	-	-	-
29		Mrs. B Naga Chandrika	-	-	-
30		Mrs. K.N.V.K. Durga Dev	1	1	-
31		Mr. SK. Mahaboob Basha	2	2	-
1	IT	Mr. V.Sudhakara Rao	2	2	-
2		Mr. Ch.V.Murali Krishna	2	2	-
3		Mrs. M.Praveena	1	1	-
4		Mrs. S. Nahida	2	2	-
5		Mrs. M.B.Anusha	4	4	-
6		Mr.Y.N.S.Satyanarayana	1	1	-
7		Mrs.CH. Santha Kumari	1	1	-
8		Mrs.P.Naga Lakshmi	1	1	-
1	MCA	Mr. B. MouleswaraRao	4	4	-
2		Mr. K. Chandramouli	3	3	1
3		K.Udaya Sri	3	3	-
4		Mrs. L. Kavitha	3	3	1
5		Mrs.G.Sireesha	2	2	-
1		Dr.N.Sambasiva Rao	19	19	8
2		R.Raghunadha Sastry	1	1	4
3		K. Venkata Kishore	3	3	3
4		S. Bhavani	3	3	-
5		I. Prasanna Kumar	2	2	3
6		B. Edukondalu	1	1	-
7		MA. Salma	2	2	-

NAAC - SELF STUDY REPORT

8	EEE	M. Tejaswini	2	2	-
9		M.Padma	1	1	-
10		S.Ramyaka	1	1	-
11		Y.Lalitha Kameshwari	5	5	6
12		V.Lalitha	1	1	-
13		N.M.Subhani	1	1	-
14		P.Sudha rani	1	1	-
15		P.Vidhya	1	1	-
1	BS &H	Dr.MVN SARMA	42	42	35
2		Dr.D.KAILASA RAO	10	10	10
3		Dr.C.V.N.RAO	39	39	10
4		Dr.KVB REDDY	3	3	-
5		Dr.L.VIJAYALAKSHMI	7	7	-
6		Dr. K.KRISHNA RAO	4	4	-
7		M.BABU PRASAD	4	4	4
8		D.SRINIVASULU	7	7	2
9		CH.S.SUBRAHMANYAN	-	-	3
10		D.VIJAYAKUMAR	-	-	1
11		P.RAJASEKHAR	-	-	1
12		A.SOMBABU	-	-	1
13		P.VIJAYA KUMAR	-	-	1
14		Y.MADHAVI	1	1	2
15		A.NEERAJA PADMA	1	1	2
16		T.SREELATHA	1	1	1
17		R.SRIDEVI	1	1	1
18		BVS PRASAD	1	-	1
19		I.DATTA SRAVANI	-	-	1
20		T.VIJAYA SRI	-	-	1
1	MECH	Dr. C.Nagabhaskar	26	24	2
2		Mr. Raffi Mohammed	13	13	--
3		Mr. R.Vijay Krishna	5	5	--
4		Mrs. K.Vidya	2	2	--
5		Mr. J.Sampath Suresh	4	4	--
6		Mr. V.Mohan Manoj	1	1	--
7		Mr. Ch.Naveen Kumar	5	5	--

NAAC - SELF STUDY REPORT

8		Ms. A.Madhuri	05	05	--
9		Mr. Sk.Abdul Azeez	04	04	--
10		Mr. Md.Nazeer	02	02	--
11		Mrs. P.Bharathi	01	01	--
12		Mr.K.Venkateswara Reddy	02	02	--
13		Mr. Y.Venkatesh	01	01	--
14		Mr. N.Syambabu	03	03	--
15		Mr.K.Naga Raju	01	01	--
1	CIVIL	CH.CH.SRINIVAS	3		
2		S.Pavan	2		
3		Kanagala Dinesh	1		

- Number of papers published by faculty and students in peer reviewed journal:

National : 94

International : 429

- Number of publications listed in International Database:

EEE : 68

- Monographs : NIL

- Chapters in books : NIL

- Books Edited : 17

S.No	NAME	DESIGNATION	NO. OF BOOKS EDITED/PUBLISHED
1	Dr.MVN SARMA	PROFESSOR	06
2	Dr.D.KAILASA RAO	PROFESSOR	10
3	D.SRINIVASULU	ASST.PROFESSOR	01

- Books with ISBN/ISSN numbers with details of publishers : 01

- Citation Index: NIL

- SNIP: NIL

- SJR: NIL

- Impact Factor:

S.No	Department	Impact Factor
1	ECE	2.08
2	CSE	04
3	IT	04
4	MCA	04

NAAC - SELF STUDY REPORT

5	EEE	1.3
6	MECH	3.01
7	CIVIL	1.3
8	BS&H	1.6278

➤ H-Index : NIL

3.4.4 Provide details (if any) of

- * Research awards received by the faculty
- * Recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally
- * Incentives given to faculty for receiving state, national and international recognitions for research contributions.

➤ Research awards received by faculty

S.No	Department	Name of Faculty	Name of Award	Year
1	CSE,IT & MCA	Dr. K.V. Sambasiva Rao	Eminent Educationist Award by FAPCCI and Govt. of AP	2013
2	EEE	Dr. N. Sambasiva rao	Best Researcher Award	2014
3	S& H	Dr.D.Kailasa Rao	a) Received Mahatma Gandhi Gold Medal National Award for Educational and Service Activities.	2014
			b) Received Dr. Abdul Kalam Gold Medal National Award for outstanding Research and Educational Activity	2015
			c) Received Vidya Ratna Award from Social Needs Education and Health Association (SNEHA) State Level Award, Tirupati	2016

NAAC - SELF STUDY REPORT

- **Recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally**

Sl.No	Name of the Faculty	Award/Recognition	Awarded By	Year
1	Dr. K.V. SambasivaRao	Who Is Who In The World	Marqui's International, New Jersey's	1998
2	Dr. N. Sambasiva Rao	Best Teacher Award	JNTUK	2014-15
3	Dr.D.Kailasa Rao	a) Attended duty without taking any leave including Casual Leave for 23 years and received appreciation	Management of Sarada College.	
		b)Received Best Teacher Award	Government of Andhra Pradesh during	2005
		c) Received Best Teacher Award	kanthi social organization, Vijayawada	2006

- **Incentives given to faculty for receiving state, national and international recognitions for research contributions:**

S.No	Name of The Faculty	Incentives Received
1	Dr.C.NagaBhaskar	10,000/-
2	Dr. K.V. Sambasiva Rao	10,000/-
3	Dr. N. Sambasiva rao	10,000/-
4	Dr.D.Kailasa Rao	10,000/-
5	M.Babu Prasad	10,000/-

NAAC - SELF STUDY REPORT

3.5 Consultancy

3.5.1 Give details of the systems and strategies for establishing institute-industry interface?

S. No	Who initiates	Nature of Interaction	When it is initiated
1	Training and Placement Cell	For arranging value added programs by industry experts Student placement	Throughout the year
2	Heads of the Departments	Industrial Visits Guest lectures and industrial training by industry experts	During the beginning of the semester
3	Students (in consultation with HoDs and Training and Placement)	Training and internships	During vacation period

The Training and Placement Cell ensures that the institution maintains symbiotic relationship with multiple industries across diverse segments. Meetings with industry and personnel result in signing of MoUs and accreditation by the industries and training services. Faculty members also establish industry institute relationship during industrial visits and internship training programmes

Data from placement cell regarding companies activity and placement The Following is the Composition Industry

S.No	Name	Designation
1	Dr.R.Venkatrao	Director
2	Dr.C.N.Bhaskar	Principal
3	Dr. M V N Sarma	Director R & D
4	S.Sri Harsha	TPO
5	T.Srilatha	Training lead
6	B.Bala Krishna	T & P Coordinator

3.5.2 What is the stated policy of the institution to promote consultancy? How is the available expertise advocated and publicized?

The institute allows consultancy works to be carried with outside agencies/industries to provide solution to industrial problems through sharing of expertise. Expertise is advocated and publicized in the following manner:

- Training and placement cell explores the possibility of collaboration during the interaction with various industries.
- Major areas of expertise are advertised through department homepage in the main college website and also through technical events/programs
- By reducing the academic and administrative workload of faculty while executing consultancy works
- By sponsoring the faculty to attend important workshops and seminars arranged by the leading technology consultants in relevant fields
- Institute periodically updates literature about the research activities and send to prospective companies highlighting the latest achievements including the facilities available with the department
- Major areas of expertise are advertised through department homepage in the main college website and also through technical events/programs, customized e-mails and public awareness talks

3.5.3 How does the institution encourage the staff to utilize their expertise and available facilities for consultancy services?

The institute encourages faculty to utilize expertise for consultancy by:

- Providing suitable advertisement at various avenues
- Encouraging faculty to make use of internal resources namely laboratory, library, computation facility etc., for experimentation and use software for solving and analyzing their consultancy projects
- Providing infrastructural facilities to organize and conduct consultancy services
- Industrial problems are always solicited to provide solution through expertise of faculty members. The students also get an opportunity to associate with professors in solving the industry problems

NAAC - SELF STUDY REPORT

3.5.4 List the broad areas and major consultancy services provided by the institution and the revenue generated during the last four years.

Details from CIVIL Department Areas of consultancy and income generated:

- A. BUILDING MATERIAL TESTING : CEMENT , METAL, REINFORCEMENT etc.,
- B. STRUCTURAL DESIGNS : Residential; Commercial, Industrial Buildings
- C. Building Construction Monitoring: Site Execution Consultancy Services.

Client Organization	Title of Consultancy of project	Amount received (in Rupees)
Praveenya Construction Vijayawada	STRUCTURAL DESIGN OF APPARTMENT FOR G+5 STORIED BUILDING	12750
PRI SUB -DIV ELURU	MIX DESIGN	4200
TELANGANA GRID	M.S.PIPE LINE DESIGN FOR RAILWAY CROSSING	8500
AP SPHC LTD.,	MATERIAL TESTING	13800
AP SPHC LTD.,	STRUCTURAL DESIGN OF CI QUARTERS AT NELLOR	24435
HEAL PARADISE	MATERIAL TESTING	16650
AP SPHC LTD.,	THIRD PARTY QUALITY CONTROL CHECKING OF ANIMAL SHEDS	9250
AP MSIDC	CONCRETE CUBES TESTING IN MATERIAL TESTING LABS	13000
S.C RAILWAY	CONCRETE CUBES TESTING IN MATERIAL TESTING LABS	8400

3.5.5 What is the policy of the institution in sharing the income generated through consultancy (staff involved: Institution) and its use for institutional development?

There is a provision for part of the revenue generated to be given to the faculty involved and certain a portion for development of the process/facility. The amount to be given to faculty as a part depends upon the nature of the project, cost and expenses incurred during developing solutions and so on. Generally the cost and expense part works out to 40- 60% of the revenue and faculty is given with 30 – 40% of the revenue generated

3.6 Extension Activities and Institutional Social Responsibility(ISR)

3.6.1 How does the Institution promote institution-neighborhood-community network and student engagement, contributing to good citizenship, service orientation and holistic development of students?

The Institute has identified the social responsibility as one of the major priorities to act upon which makes the students to learn ethical values and responsibilities required for good citizenship, service orientation and holistic development. Hence the Institute promotes community service as a mandatory program at undergraduate level to inculcate the sense of social responsibility and to provide a platform for self-learning and group learning mechanisms in future life.

The college established Entrepreneur Development Cell “Nurturing Entrrapreneurs at NRI Institute of Technology NEAN” in the year 2013. with the main objective of spreading awareness among the students of NRIIT and provide a launching pad for budding entrepreneurs to emerge out of in and around Vijayawada. NEAN conducted/is conducting several awareness creation programs on entrepreneurship.

Some of the significant achievements:

- NEAN collaborates with the E cell IIT Kharagpur and has co-hosted the **Entrepreneurship Awareness Drive (EAD-13)** at Vijayawada wherein, around 1000 students from different engineering colleges in and around Vijayawada participated in order to have awareness about entrepreneurship.
- NEAN is guided by a professor in-charge who lead a team of 80 students to participate in **Global Entrepreneurship Summit (GES-14)**, conducted by IIT Kharagpur, during January 2014, 2015 and 2016.
- A **Start Up Saturday** was organized on 08/03/2014 at NRIIT where in young entrepreneurs in and around Vijayawada gathered in a seminar to create awareness on entrepreneurship among students and shared their valuable experiences. This event was conducted by NRIIT in collaboration with **Entrepreneurs Mingle**, Vijayawada.

NAAC - SELF STUDY REPORT

- A three day workshop was conducted in Mar 2015 on the campus by AP Productivity Council in collaboration with National Science and Technology Development Board, New Delhi to **create awareness on entrepreneurship** to the students of NRIIT.
- **Start Up India-Workshop on entrepreneurial skills.**A one day workshop was conducted on February 27th 2016 on the campus by NEAN the E cell of NRIIT.The key speakers were Sri B.R.Sastry, M.D Methesis Industries Hyderabad, Ms Annapurna M D of Navya Food Processing,Hyderabad and Sri K.Ranga Rajan,AGM SBI,Vijayawada.125 students from second,third and final year B.Tech participated in the workshop.
- Four teams of NRIIT students were selected for the final round of Paper Presentation Contest to be held at Satyabhama University at Chennai on 19th November'2016, on the concept of Make in India. This event was conducted by the Project Council which is an ECI (Entrepreneurs Council of India) initiative. One team from NRIIT emerged as one of the best five teams in the prestigious competition in which around 1000 students participated from all over the country. NRIIT was also presented with an award of excellence for motivating the maximum number of student teams for participating in the above mentioned Paper Presentation Contest.
- A one day workshop on 'Developing Women Entrepreneurs' was conducted in the campus on 8th March'2017 on the eve of Women's day. Mrs. Vidya Kanna(ex Director of Jana Sikshana Samsthan, Vijayawada and Mrs. Vijayalakshmi a philanthropist were the resource persons for the workshop.
- The E cell of the campus also submitted proposals for financial assistance for conducting EDPED (ENTREPRENEURSHIP DEVELOPMENT PROGRAMS ON NURTURING ENTERPRISING SKILLS) and FDP(FACULTY DEVELOPMENT PROGRAM) to the Department of Science and Technology, Government of India.

NSS unit :

- promotes the neighborhood community network by organizing the

NAAC - SELF STUDY REPORT

following activities:

Develops leadership qualities among students, unemployed youth through health awareness camps, Blood Donation Camps and literacy programmes. The institute is conscious of its role in campus community connection, wellbeing of its neighborhood and has initiated a number of community development activities. These activities include: organizing regular blood donation camps, and blood donation on life saving emergency call. Organizing NSS camps where cleaning and sanitizing around neighboring villages is done, and self-awareness about cleanliness, water and other public safety is demonstrated.

Date	Camp	Venue
3-3-2017 28-2-2017	Cultural activities	Z.P. High School Kanasanapalli
27-2-2017	Special camp inauguration and yoga camp	Z.P. High School Nugondapalli
Dec 2016	Digital Transactions- Awareness rally on cashless transactions	Agiripalli
Nov 2016	Blood Donation Camp	NRIT
Sep 2016	Vanam Manam – The Sapling project	NRIT





3.6.2 What is the Institutional mechanism to track students' involvement in various social movements / activities which promote citizenship roles?

- Institute has conveners in each department for conducting of co-curricular and extracurricular activities. It has co-ordination with student counselors through which the students involvement in various social activities is monitored
- Extracurricular activities and value education provide avenues to students to become aware of social environment, social evils, citizen responsibility and individual contribution to make the society a better place to live
- The institute has NSS wing and students participate in various social activities. The Institute has motivated the students to maintain plastic free campus by banning the use of plastic in the campus to imbibe the qualities of social responsibility and also raise slogans to avoid plastic covers in around the Vijayawada cities.

3.6.3 How does the institution solicit stakeholder perception on the overall performance and quality of the institution?

The stakeholders' perception on the overall performance and quality of the institution is assessed through feedback obtained from the faculty, students, parents, alumni, inspection committees, visitor's comments, accreditation committees and through meetings with them. Rating of the institute by external agencies also helps to assess the overall performance and improve the quality of the institution wherever necessary.

NAAC - SELF STUDY REPORT

Students:

- The Institution conducts parent meets and collects feedback from parents regarding academic performance, quality and constructive suggestions to improve the quality of the Institution. Exit feedback is taken from recruiters during campus placement and analyzes them to hone up the skills of the students. The Management thereby makes decisions and policies keeping in view, the perceptions of all stake holders and recommends to the Governing Body.

Faculty:

- Interaction of the faculty with the Principal to discuss department requirement if any and other academic related issues

Alumni:

- The Institution has strong alumni association with a convener and faculty In charge from each department.

President – Dr. R. Venkata Rao, Chairman

Vice-President – Dr. C. Naga Bhaskar, Principal

Co-Ordinator – K. Vamsi Krishna

Members Ashraff Ali, Department of ECE
R. Raghunadha Sastry, Department of EEE
Ch. Surya Kiran, Department of CSE
Ch. V. Murali Krishna, Department of IT
V. Mohan Manoj Gupta, Dept of Mech Engg.
K. Bhaskar Rao, Department of Civil Engg.
K. Chandra Mouli, Department of MCA

- Approximately 1000 students have registered in alumni association
- The association organizes meetings and has regular formal and informal interactions wherein any alumnus is free to give their suggestions and feedback.
- The alumni activities are extended by interaction with current students, delivering suggestions and advising on placement opportunities and what the industry expects from them and what skills are to be acquired by them to match the industry of their domain

Industry:

- Feedback from the industrial experts visiting the department for guest lectures

3.6.4 How does the institution plan and organize its extension and outreach programs? Providing the budgetary details for last four years, list the major extension and outreach programs and their impact on the overall development of students.

- Institute organizes a number of outreach activities which relate to academic, social, cultural, community service etc., that culminate in forming a healthy society that contributes to nation building. The Institution with the help of voluntary organizations organizes these outreach programs. Apart from this Institution has its own budget for the programs.
- The NSS unit also has conducted several blood donation camps and tree plantation campaigns, made it a point to conduct at least once a year where many students and staff members donate blood voluntarily. It also conducts tree plantation campaigns regularly to create environmental awareness. The observed impact of such outreach programs has been found to boost the ethics of the students while actively participating in different social and cultural activities. Many students have visited old age homes, orphanages and many other charitable societies and spent their time with the people to provide educational support to orphans and moral support to old age people.

LIST OF ACTIVITIES AND BUDGET

3.6.5 How does the institution promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International agencies?

- The Institution has a dedicated unit of NSS established in the year 2008. The unit actively conducts several social welfare programs and encourages the students to participate in those activities. The information about the proposed activities is disseminated on the notice board, circulars, web notifications and also through oral interaction/briefing by the concerned section in charge.
- The Institution makes a conscious effort to promote social justice as a value in learning process and administrative interactions, for which sincerely practices state social affirmative schemes introduced by the government for the upliftment of higher education to under privileged communities.

3.6.6 Give details on social surveys, research or extension work (if any) undertaken by the college to ensure social justice and empower students from under-privileged and vulnerable sections of society?

NRIIT makes a conscious attempt to promote social justice as a value in learning process and administrative interactions. The Institution sincerely practices state social affirmative schemes introduced by the government for providing higher education to under privileged communities. The institute offers opportunities for career and personality development through Training and Placement cell.

The NSS unit organizes social welfare program every semester. NSS training prepares students morally and ethically strong enough to face challenges that emerge in day to day life.

3.6.7 Reflecting on objectives and expected outcomes of the extension activities organized by the institution, comment on how they complement students' academic learning experience and specify The values and skills inculcated.

Extension activities conducted by the Institute always imbibe academic learning experience, values and skills not only in students but also among the faculty. These activities refresh the environment of the Institute as well. The Institute strives to provide knowledge and quality education to all the sections of the society. It aims to maintain modern outlook with contemporary developments without compromising on moral values, to pursue intellectual, professional and cultural development to meet the national and universal challenges.

Outcomes of the extension activities:

The extension activities such as Social responsibility, Ethics and human values, Health and hygiene, National integration Communication with community, Team work, Training in fire fighting and providing flood relief. Social service and Environmental protection expose the students to real life time problems and stand tall for the cause of social upliftment of weaker sections of the society. The outcome of such extension activities assists the students to develop strong will to resolve these problems existing in the society through technology.

NAAC - SELF STUDY REPORT

3.6.8 How does the institution ensure the involvement of the community in its reach out activities and contribute to the community development? Detail on the initiatives of the institution that encourage community participation in its activities?

- The institute is roping in communities to actively participate in all the extension activities that contribute both to the community-Institution networking and development of the Institution
- The local villagers are initially consulted and the youth of the villagers are made to involve in all the NSS activities.
- Extensive local participation is witnessed during tree plantation, medical camps etc
- The Institution has also taken initiative to create awareness in the society about the social and health problems like female foeticide, dowry system, environmental protection, consumer protection, anti corruption, HIV awareness, anti-tobacco and alcohol, cleanliness awareness etc.,
- Time to time survey is conducted to check the feedback and improvement in society. Seminars and individual group discussion are conducted to solve these problems

3.6.9 Give details on the constructive relationships forged (if any) with other institutions of the locality for working on various outreach and extension activities.

The institution has constructive relationships with other organizations and Institutions of the locality such as Rotary club, Red Cross, Lions club etc. The blood donation camps are organized with the help of reputed hospitals. The NSS unit coordinates all its activities under the norms of the University. The unit organizes tree plantation, Swachh Bharat, awareness activities on water pollution, environment pollution, usage of pesticides etc.

S.NO	ACADAMIC YEAR	NAME OF THE PROGRAM	BUDGET AMOUNT
1	2016-2017	SPECIAL CAMP	22500
2	2016-2017	REGULAR CAMP	16000
3	2015-2016	SPECIAL CAMP	22500

NAAC - SELF STUDY REPORT

4	2015-2016	REGULAR CAMP	16000
5	2014-2015	SPECIAL CAMP	22500
6	2014-2015	REGULAR CAMP	16000

3.6.10 Give details of awards received by the institution for extension activities and/contributions to the social/community development during the last four years.

The Institution received appreciation from the adopted schools and from village panchayats for educating the villagers in cleanliness, hygiene, healthcare etc.

3.7 Collaboration

3.7.1 How does the institution collaborate and interact with research laboratories, institutes and industry for research activities. Cite examples and benefits accrued of the initiatives - collaborative research, staff exchange, sharing facilities and equipment, research scholarships etc.

- The Training and Placement Cell maintains a symbiotic relationship with industries and is instrumental in signing of MoUs and accreditation by the industries. The various departments of the institution also interact with industries in their concerned areas for research activities.
- Organizing industrial visits for students
- Sending students for internships
- Arranging guest lectures and workshops by reputed faculty and industry experts
- Encouraging faculty to attend refresher courses
- Collaborative research – Ph.D., research scholar pursuing in other universities
- Sharing of facilities – consultancy works in civil department.

The management also funds in-house and innovative projects of the students and many of the final year students execute their projects in reputed industries and research organizations

3.7.2 Provide details on the MoUs/collaborative arrangements (if any) with institutions of national importance/other universities/ industries/ Corporate (Corporate entities) etc. and how they have contributed to the development of the institution.

The Institute has signed MoUs with MNCs and reputed organizations to

NAAC - SELF STUDY REPORT

conduct activities like training, placements, guest lectures, participation in technical/scientific events and services. The Institute has signed MoUs with the following organizations.

S. No	Company	Location	Purpose
1	Mission ignite training services	Hyderabad, Telangana	Conducting recruitment drives
	Sify Technologies Limited	Chennai	Computer based tests
2	Apps Treasure IT solutions Pvt Lt	Hyderabad	Jobs, employment, empowerment
3	ARK Technologies , Mumbai	Mumbai	Certificate course on ANSYS_HFSS and MATLAB, Projects
4	Microlink Information Technologies	Vijayawada	Workshops, projects
5	Efftronics.	Vijayawada	internships
6	KUSALAVA INTERNATIONAL LTD.	Agiripalli	Internships, industrial visits, projects
7	FUTURE NDT	Vijayawada	Workshops, hands on training
8	M/s. Oracle University	Bangalore	training
9	Microsoft Ed-Vantage Programme	Bangalore	training
10	Andhra Pradesh State Skill Development Corporation(APSSDC)	Amaravati	Training, projects
8	Massive Open Online Courses(MOOCs)	JNTUK, Kakinada.	Online courses

3.7.3 Give details (if any) on the industry-institution-community interactions that have contributed to the establishment / creation/up-gradation of academic facilities, student and staff support, infrastructure facilities of the institution viz. laboratories / library/ new technology /placement services etc.

- Industry-Institution-community interactions are done by inviting Eminent personalities to deliver guest lectures, seminars etc. Importance of collaborative research projects and live projects for students is created by inviting eminent scientists and industrial personnel
- Faculty and students are encouraged to attend seminars ,workshops and update their knowledge to meet needs of industry and society .
-

NAAC - SELF STUDY REPORT

Outcomes of MoUs :

- Students are trained in MATLAB, sci lab ansys HFSS and labview, AUTOCAD, softwares.
- To provide industry oriented training to the students to be suitable for placement in Efftronics Systems Private Limited, Kusalava International Limited, EMc², INFOSYS campus connect

3.7.4 Highlighting the names of eminent scientists/participants who contributed to the events, provide details of national and international conferences organized by the college during the last four years.

The Institution has applied for funding to DST for conducting national and international conferences/workshops/Projects etc. One national conference has been sanctioned by DST entitled “A TWO DAY NATIONAL CONFERENCE ON NEXT GENERATION COMPUTING”, to Department of CSE. Also, several Guest Lectures/workshops/Seminars have been conducted in all departments.

The details of Eminent experts from university, Scientific Organization and Industry who visited our Institution and contributed to the career and development of students is provided in 3.1.8

3.7.5 How many of the linkages/collaborations have actually resulted in formal MoUs and agreements ? List out the activities and beneficiaries and cite examples (if any) of the established linkages that enhanced and/or facilitated -

- a) **Curriculum development/enrichment**
The Institute is affiliated to JNTU Kakinada, Hence there is no scope of curriculum.
- b) **Internship/ On-the-job training**
The Institute encourages students to attend various summer Internships and training programs at various corporate houses as a regular practice. The institute also offers Placement Trainings for Final year students during summer vacation and throughout the academic year for all the students.
- c) **Summer placement**
Students are encouraged to take up summer placement at various organizations.
- d) **Faculty exchange and professional development**
NIL
- e) **Research**
Guest Lectures, Workshops, Seminars and Conferences are organized.

NAAC - SELF STUDY REPORT

f) Consultancy

The College encourages consultancy for faculty members.

g) Extension

The Institute works in association with several social service organizations for performing extensional activities.

h) Publication

The Institution encourages students and faculty for publications. Refer 3.4.1 for details.

i) Student Placement

Esteemed organizations visit the Institute for providing placements to students regularly.

j) Twinning programmes - NIL

k) Introduction of new courses -

l) Student exchange - NIL

**m) Any other - YES MoU with UNK, USA
Colleborative Programme**

3.7.6 Detail on the systemic efforts of the institution in planning, establishing and implementing the initiatives of the linkages/ collaborations.

The Institute strives in establishing collaboration with several Industry related to academic and research activities for faculty and students in various specializations and industry institute interaction cell has been established for this purpose and its function includes

- MoU arrangements with various organizations
- Inviting expertise from industries, research organizations and universities

CRITERION - IV

INFRASTRUCTURE AND LEARNING RESOURCES

4.1. Physical Facilities

4.1.1 What is the policy of the Institution for creation and enhancement of infrastructure that facilitate effective teaching and learning?

NRIIT is proactive and has a positive approach for the development of good and modern infrastructure and this will definitely facilitate improved teaching and learning process. As per the policy matter, the institution has developed good infrastructure like Canteen, Transport Facility, Internet, Library with reading room, Digital Library, Well Equipped Laboratories, Playgrounds, Hostel in the campus. The institution has also planned to provide separate modern infrastructure for research activities.

4.1.2 Detail the facilities available for

a) Curricular and co-curricular activities – classrooms, technology enabled learning spaces, seminar halls, tutorial spaces, laboratories, botanical garden, Animal house, specialized facilities and equipment for teaching, learning and research etc.

Infrastructure facilities for curricular and co-curricular activities:

The college is located in a serene atmosphere in pothavarappadu Village, Agiripalli Mandal, Krishna District. The total extent of land available to the college is 20 acres.

S No	Name of the facility	Number of rooms	Area in sq.m
1	Class rooms	60	3960
2	Tutorial rooms	29	957
3	Drawing Halls	03	300
4	All laboratories	45	3375
5	Seminar halls	1	1584
8	Computer centre	01	293.33
9	Library	01	600
10	Open Auditorium	01	12140.58

Classrooms:

The institution has sufficient number of well-furnished, well-ventilated, spacious classrooms for conducting theory classes and tutorial classes.



Figure 4.1 :Class room

Technology enabled learning rooms:

Departments are provided with LCD projectors and audio equipment, LAN enabled internet connectivity in each classroom to facilitate technology enabled learning.



Figure 4.2 :Technology anabled room

Seminar Hall:

NRIIT has seminar hall to conduct conferences, workshops and symposia for students and faculty. It has a seating capacity of 400 and is air conditioned and is equipped with LCD projector, white board and public addressing system.

Laboratories:

All laboratories are well equipped, and well maintained not only for carrying out curriculum-oriented practical's but also to carry out experiments beyond curriculum.



Figure 4.3 :Laboratory

b) Extra –curricular activities – sports, outdoor and indoor games, gymnasium, auditorium, NSS, NCC, cultural activities, Public speaking, communication skills development, yoga, health and hygiene etc.

Sports:

The College encourages and provides facilities for students to participate in both outdoor and indoor games. The college has always created a niche for itself in the field of sports with our students participating in various inter-university level tournaments. A full time Physical Director trains the students to achieve greater heights in their fields of interest.

NSS:

The college has NSS unit which is effectively undertaking social welfare exercises like blood donation, plantation of trees, directing different

meaningful programs and Swachh Bharat for cleaning actions in surrounding villages.



Figure 4.4 : Vanam-Manam

Cultural Activities:

The College also encourages the students to participate in various cultural and literary activities and make the students excel in their fields of interest.



Figure 4.5 : Cultural activity

Public speaking communication skills development:

The communication skills lab trains the students in enhancing their skills.

NAAC - SELF STUDY REPORT

4.1.3 How does the institution plan and ensure that the available infrastructure is in line with its academic growth and is optimally utilized? Give specific examples of the facilities developed/augmented and the amount spent during the last four years (Enclose the Master Plan of the Institution / campus and indicate the existing physical infrastructure and the future planned expansions if any).

Institution has developed Infrastructure and facilities as per the AICTE and the affiliating University norms. The campus is totally surrounded with pleasing scenery, plenty of trees greenery around the college building, sufficient space for outdoor games, canteen etc., as required for the welfare of the students.

All our activities have been brought under the ISO quality system.

- By assessing the requirements and availability periodically through reviews, the infrastructure is optimally utilized.
- Common facilities like computer and other laboratories, library, Seminar halls etc. are utilized by all the departments.

The following amount is spent towards construction, establishment of laboratories, equipment, furniture etc, during the last 4 years, viz: 2016-17, 2015-16, 2014-15, 2013-14 as shown below.

Particulars	2016-17	2015-16	2014-15	2013-14
Lab Maintenance	1115640	544406	474636	250704
Electricity	4487056	3045627	3550835	1948548
Training & Travelling	2731571	1828606	1145745	1401717
Building	25361761	2455435 5	2556247 9	36975383
Computers	2178000	6787763	951248	5284400
Furniture	3254585	1386318	2619705	5099698
Fire Safety	1435050	10000	20000	25000
Generator	120000	80000	50000	665000
Lab Equipment	543683	350000	1841598	3228988

NAAC - SELF STUDY REPORT

Library	182000	20000	25000	654530
Vehicles – Buses	6102279	120000	220000	19277325
Others	120943	564750	534250	907018
TOTAL	47632568	3929183 5	3699549 6	75718311

NAAC - SELF STUDY REPORT

MASTER PLAN

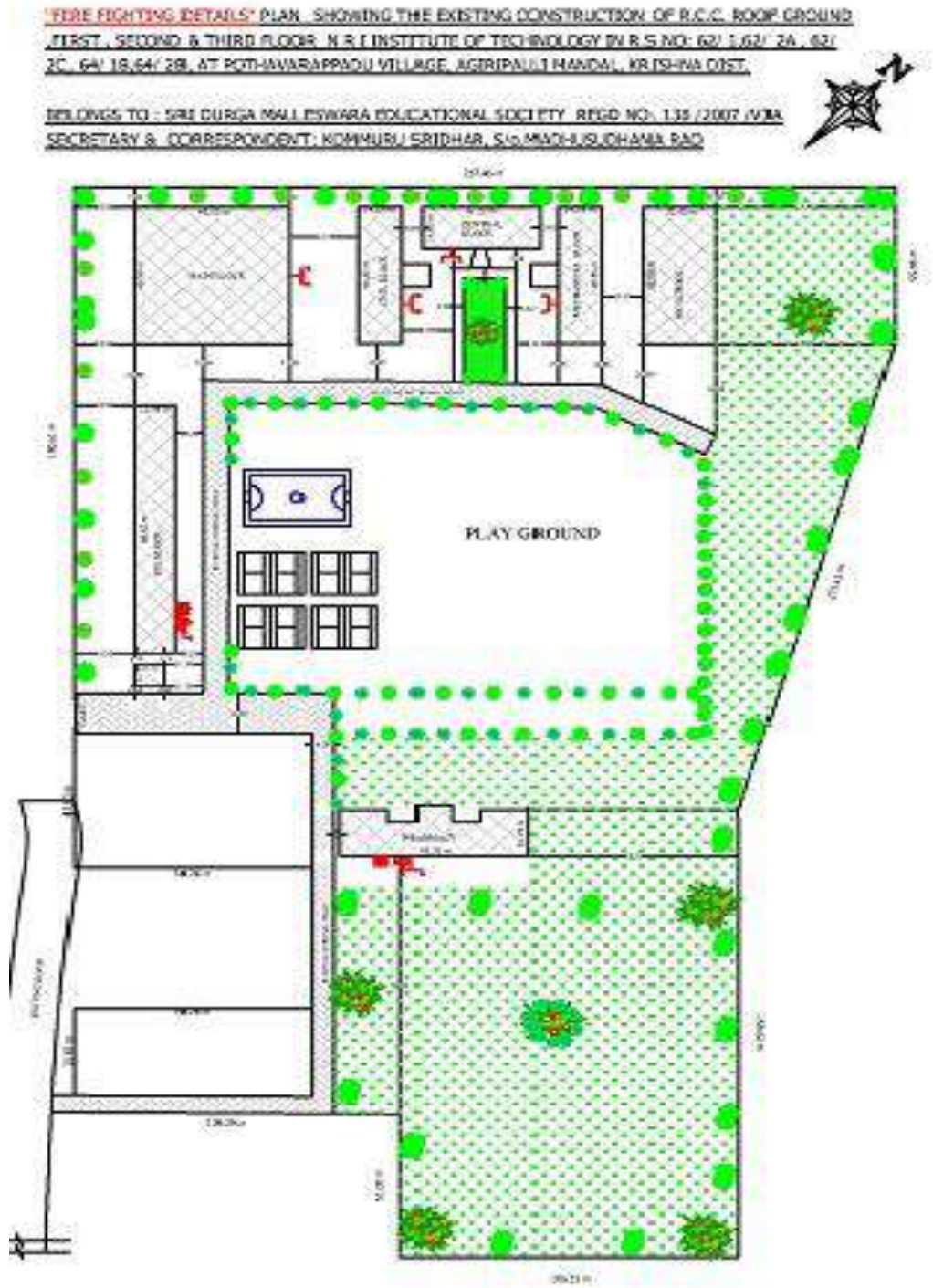


Figure 4.6 : Master Plan of the college

4.1.4 How does the institution ensure that the infrastructure facilities meet the requirements of students with physical disabilities?

To ensure that the infrastructure facilities meet the requirements of the differently-abled, the institute conducts its classes in the ground floor and maintains a separate facility for library books arranged through supporting staff. In addition most of the lab facilities are provided in the ground floor with a few in the first floor to provide easy access a ramp is provided for them.

4.1.5 Give details on the residential facility and various provisions available within them:

Hostel Facilities:

The college has a hostel for boys with facilities such as common room with TV, magazines, sports and games, internet and Wi-Fi facility etc. The hostel capacity and other details are given below.

S No	Description	Boys
01.	Location	College premises
02.	Area in sq.m	2252
03.	Internet	available
04.	Capacity for accommodation	178

Hygiene facilities:

Every floor has water coolers with RO purifiers with consistent supply of cleansed drinking water to all the students.

The campus is totally secured with the help of security personnel provided by the NRIIT. For safety against fire, adequate number of fire extinguishes and water points are available in the college and also in the hostel.



4.1.6 What are the provisions made available to students and staff in terms of health care on the campus and off the campus?

First-Aid room with all crisis life supporting systems is accessible in the college. The college has a Ambulance and a doctor to meet medicinal crises for students and staff. In case of emergency the suffering person will be taken to nearby hospital for the treatment.

4.1.7 Give details of the Common Facilities available on the campus–spaces for special units like IQAC, Grievance Redressal unit, Women’s Cell, Counseling and Career Guidance, Placement Unit, Health Centre, Canteen, recreational spaces for staff and students, safe drinking water facility, auditorium, etc.

NRIIT has marked separate space for the common facilities on the campus. These are equipped with necessary office space, computing and other facilities. Institution has a grievances and redressal cell headed by a senior faculty member. Career guidance cell, training and placement cell, health care etc., are also available in the institution.

Counselling and career guidance: Placement cell, headed by Training and Placement Officer is located in the main block. The infrastructure facility consists of TPO’s chamber, room for aptitude trainer, dining facility and cubicles for the purpose of interviews during campus recruitment. The career counselling activity is taken up by the T & P cell. Personal and academic counselling is carried out in a systematic manner through proctorial system which has been in place at NRIIT for the last 8 years and also by organizing various guest lectures, seminars etc..

Canteen: A centralized spacious canteen with kitchen facility is there, to cater to the needs of the staff and students in which quality and hygiene are given utmost importance in both cooking and serving.

Drinking water: Continuous water supply is ensured through bore wells and fresh water canal available near the college and for drinking water a RO plant (Mineral water plant) with a capacity of 1000 litre per hour of drinking water has been installed.

Power supply: Electrical power is supplied to NRIIT through a 11 K.V. 3- phase feeder from A.P. Transco. The institute presently has two 125 KVA diesel Generators to support the power segment in case the A.P. Transco supply fails.

Communication: The Management has provided intercom phones to all the functionaries with group calling facility.

Transport: Considering the need to provide comfortable and safe transport to the students & staff, the institute is running a fleet of 45 buses.



Figure 4.6 : College buses

4.2 Library as a Learning Resource

4.2.1 Does the library have an Advisory Committee? Specify the composition of such a Committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?

Yes, the library has an advisory committee. The library committee consists of Principal as Chairman, Librarian as Convener and one faculty member from each department as a member. The committee meeting is held once in a semester to discuss and try to implement the aspects like,

- Upgrading the library through new titles and increase in the number of volumes of existing titles.
- Steps to be taken to make library more user-friendly.
- Evaluation of the library usage
- Library services and usage Feedback from members (students and faculty)

Library has long working hours (9AM to 9PM) with internet facility on all days including Saturday and Sunday.

4.2.2 Provide details of the following :

01	Carpet Area of Library	600 sqm
02	Reading Space	250 sqm
03	Seating Capacity in reading space	200

NAAC - SELF STUDY REPORT

04	No. of users (issue book)per day	75-100
05	No. of users (reading space)per day	50
06	Academic Working day	9.00am-9.00pm
07	Academic week end	9.00am-9.00pm
08	Vacation	9.00am-9.00pm
09	Computerization for search, index, issues /return records	Yes

4.2.3 How does the library ensure purchase and use of current titles, print and e journals' and other reading materials? Specify the amount spent on procuring new books, journals and e-resources during the last four years.

Catalogues, brochures, pamphlets, from various publishers are distributed to the departments to enable them to make choices and requisitions. Accumulating these requisitions and based on the recommendations of the Library committee, the order for the purchase of Books/ Journals and other materials is placed with a suitable vendor before the commencement of every semester. The new arrivals of books and journals are kept for display for creating awareness among the users.

Library Holding s	2012 – 2013 Year 1		2013– 2014 Year 2		2014 – 2015 Year 3		2016 – 2017 Year 4	
	Numb er	Total Cost	Numb er	Total Cost	Nu mbe r	Total Cost	Nu mbe r	Total Cost
Text Books	2141	624085	1200	54007	2351	58467	8000	42536
Referenc e Books	202	82898	48	20216	13	6321	8	3338
Journals/ Periodica ls	89	157510	32	18523	12	5899	10	5682
e- resources	6 Package s	157510	25	15326	25	10235	25+680000*	11235
Any other (Specify)	Delnet 1500000	25000	1500000	25000	1500000	25000	1500000	25000

* borrowed from National Digital Library

4.2.4 Provide details on the ICT and other tools deployed to provide maximum access to the library collection?

NAAC - SELF STUDY REPORT

- OPAC : YES
- Electronic Resource Management package for e-journals : Delnet
- Federated searching tools to search articles in multiple databases : Yes
- Library Website : Yes
- In-house / remote access to e-publications : Yes
- Library automation :Barcod
- Total number of computers for public access : 30
- Total numbers of printers for public access : 2
- Internet bandwidth / speed : 10Mbps
- Institutional Repository : Yes
- Content management system for e-learning : Yes
- Participation in Resource sharing networks / consortia (like Inflibnet) :NPTEL

4.2.5 Provide details on the following items:

- Average number of walk-ins : 100
- Average number of books issued /returned ISSUES:75 RETURNS :50
- Ratio of library books to students enrolled : 3:1
- Average number of books added during last three years : 1403
- Average number of logins to opac(OPAC) : YES
- Average number of logins to e-resources : 5
- Average number of e-resources downloaded /printed : 50
- Number of information literacy trainings organized : 1
- Details of —weeding out of books and other materials : Yes

4.2.6. Given details of the specialized services provided by the library.

- Manuscripts : YES
- Reference : YES
- Reprography : YES
- ILL (Inter Library Loan Service) : YES
- Information deployment and notification (Notice Boards) : YES
- (Infion Deployment and Notification)
- Download : YES
- Printing : YES
- Reading list /Bibliography compilation : YES
- In-house /remote access to e-resources : Yes
- User Orientation and awareness : YES
- Assistance in searching Databases : YES
- INFLIBNET/ IUC facilities ; YES

4.2.7. Enumerate on the support provided by the library staff to the students and Teachers of the college .

- Individual user orientation
- Educate how to use e-Journals
- Providing hands-on experience to access e-resources
- Information alert services on New arrivals
- Books/other materials Reservation facility
- Providing assistance to search reserved books on stacks.
- SMS services for overdue books

4.2.8 What are the special facilities offered by the library to the visually/ physically challenged persons? Give details.

Staff are arranged to help the differently abled persons. Till date there are no differently abled students in our college.

4.2.9 Does the library get the feedback from its users? If yes, how is it analyzed and used for improving the library services. (What strategies are deployed by the Library to collect feedback from users? How is the feedback analyzed and used for further improvement of the library services?)

- **Yes**, a feed back / suggestions/complaints box is kept in the library to get feedback from staff and students at any point of time.
- **Yes** Any useful suggestion or complaint received is analyzed and finalized by the committee.

4.3 IT INFRASTRUCTURE

4.3.1 Give details on the computing facility available (hardware and software) at the institution. Number of computers with Configuration (provide actual number with exact configuration of each available system)

NRIIT provides IT infrastructure that facilitates to meet all the demands of Teaching/Learning Process. The computing facility available in the college is as given below:

NAAC - SELF STUDY REPORT

Computer Lab – 1 : CDS & ADS Lab

SNo	Particulars	Quantity
1	Desktops :: Brand - HP DX 2480 Intel Core 2 Duo 2.4Ghz Processor, Intel Chipset Mother Board, 1 GB DDR2 Ram, 160 GB SATA HDD, 1000 Mbps onboard Ethernet, 17" TFT Monitor, HP USB Optical mouse &Keyboard.	75 Systems
2	Networking Components : 12u Valrack Mount Rack	1 No's
	24 port D-Link 10/100 MBPS switches	5 No's
	8 port Giga Byte switch	1 No's
3	UPS : EATON 10KVA Online UPS	2 No's

Computer Lab – 2:ELCS &IT Workshop Lab

SNo	Particulars	Quantity
1	Desktops :: Brand - IBM Lenovo Think CentreM55E Intel Core 2 Duo 2.2Ghz Processor, Intel 946 Chipset Mother Board, 1 GB DDR2 Ram, 160 GB SATA HDD, 1000 Mbps onboard Ethernet, 17" TFT Monitor, Lenovo USB Optical mouse &Keyboard.	61 Systems
2	12u Valrack Mount Rack	1 No's
	8 port Giga Byte switch	1 No's
	24 port D-Link 10/100 MBPS switches	3 No's
	24 port D-Link Patch Panel	3 No's
3	UPS : EATON 10KVA Online UPS	2 No's
4	Head Phones	65 No's

NAAC - SELF STUDY REPORT

Computer Lab – 3: Java, Adv. Java &DBMS Lab

SNo	Particulars	Quantity
1	Desktops :: Brand - HP DX 2480 (19,700) Intel Dual Core 2.5Ghz Processor, Intel Chipset Mother Board, 1 GB DDR2 Ram, 160 GB SATA HDD, 1000 Mbps onboard Ethernet, 18.5" TFT Monitor, HP USB Optical mouse &Keyboard.	70 Systems
2	Networking Components : 9u Valrack Mount Rack	- 1 No's
	24 port D-Link 10/100 MBPS switches	- 3 No's
	24 port D-Link Patch Panel	- 2 No's
	8 port Giga Byte switch	- 1 No's
3	UPS : EATON 10KVA Online UPS	-2 No's

Computer Lab – 4: WT& DM Lab

SNo	Particulars	Quantity
1	Desktops :: Brand - HP PRO 3090 (22,300.03) Intel Dual Core 2.7Ghz Processor, Intel G43 Chipset Mother Board, 2GB DDR3 Ram, 320 GB SATA HDD, 1000 Mbps onboard Ethernet, 18.5" TFT Monitor, HP USB Optical Mouse &Keyboard	72 Systems
2	9u Valrack Mount Rack	1 No's
	8 port Giga Byte switch	1 No's
	24 port D-Link 10/100 MBPS switches	3 No's
	24 port D-Link Patch Panel	3 No's

NAAC - SELF STUDY REPORT

Computer Lab – 5 : DSP Lab

SNo	Particulars	Quantity
1	Desktops :: Brand - HP PRO 3090 (22,300.03) Intel Dual Core3.0Ghz Processor, Intel G43 Chipset Mother Board, 2GB DDR3 Ram, 320 GB SATA HDD, 1000 Mbps onboard Ethernet, 18.5" TFT Monitor, HP USB Optical Mouse &Keyboard.	31 Systems
2	Desktops :: Brand - HP PRO 3330 (23,100.00) Intel Dual Core3.0Ghz Processor, Intel G43 Chipset Mother Board, 2GB DDR3 Ram, 320 GB SATA HDD, 1000 Mbps onboard Ethernet, 18.5" TFT Monitor, HP USB Optical Mouse &Keyboard	39 Systems
3	9u Valrack Mount Rack	1 No's
	8 port Giga Byte switch	1 No's
	24 port D-Link 10/100 MBPS switches	3 No's
	24 port D-Link Patch Panel	3 No's
4	UPS : EATON 10KVA Online UPS	-2 No's

Computer Lab –6 OS & CD Lab

SNo	Particulars	Quantity
1	Desktops : Brand - HP PRO 3330 (23,100.00) Intel Dual Core3.0Ghz Processor, Intel G43 Chipset Mother Board, 2GB DDR3 Ram, 320 GB SATA HDD, 1000 Mbps onboard Ethernet, 18.5" TFT Monitor, HP USB Optical Mouse &Keyboard	75 Systems
2	12u Valrack Mount Rack	1 No's
	8 port Giga Byte switch	1 No's
	24 port D-Link 10/100 MBPS switches	3 No's
	24 port D-Link Patch Panel	3 No's
3	UPS : EATON 10KVA Online UPS	2 No's

NAAC - SELF STUDY REPORT

Computer Lab – 7: Mechanical Application Lab

SNo	Particulars	Quantity
1	Laptops: Brand Intel Dual Core3.0Ghz Processor, Hp Pentium N3530 2GB Ram, 500 GB HDD, 1000 Mbps onboard Ethernet, 14" LED Monitor, HP USB Optical Mouse	60 Systems
2	9u Valrack Mount Rack	– 1 No's
	8 port Giga Byte switch	– 1 No's
	24 port D-Link 10/100 MBPS switches	– 3 No's
	24 port D-Link Patch Panel	– 3 No's
3	UPS : VGUARD 10KVA Online UPS	1 No's

Computer Lab –8: CIVIL Application Lab

SNo	Particulars	Quantity
1	Laptops: Brand – Intel Dual Core3.0Ghz Processor, Hp Pentium N3530 2GB Ram, 500 GB HDD, 1000 Mbps onboard Ethernet, 14" LED Monitor, HP USB Optical Mouse	63 Systems
2	9u Valrack Mount Rack	1 No's
	8 port Giga Byte switch	1 No's
	24 port D-Link 10/100 MBPS switches	3 No's
	24 port D-Link Patch Panel	3 No's
3	UPS : VGUARD 10KVA Online UPS	1 No's

NAAC - SELF STUDY REPORT

Computer Lab – 9 UNIX Lab

SNo	Particulars	Quantity
1	Desktops : Brand - HP PRO 3330 Intel Dual Core3.0Ghz Processor, Intel G43 Chipset Mother Board, 2GB DDR3 Ram, 320 GB SATA HDD, 1000 Mbps onboard Ethernet, 18.5" TFT Monitor, HP USB Optical Mouse &Keyboard	82 Systems
2	12u Valrack Mount Rack	1 No's
	8 port Giga Byte switch	1 No's
	24 port D-Link 10/100 MBPS switches	3 No's
	24 port D-Link Patch Panel	3 No's
3	UPS : EATON 10KVA Online UPS	2 No's

Computer Lab – 10: Hadoop Lab

SNo	Particulars	Quantity
1	Desktops : Brand - HP 280 G1 MT Intel Dual CoreG3250 3.2Ghz Processor, 2GB DDR3 Ram, 500 GB SATA HDD, 1000 Mbps Onboard Ethernet, 18.5" LED Monitor, HP USB Optical Mouse &Keyboard.	25 Systems
2	Desktops : Brand - HP 202 G2 MT Intel Dual CoreG3250 3.2Ghz Processor, 4GB DDR3 Ram, 500 GB SATA HDD, 1000 Mbps Onboard Ethernet, 18.5" LED Monitor, HP USB Optical Mouse &Keyboard.	99 Systems
3	12u Valrack Mount Rack	- 1 No's
	8 port Giga Byte switch	- 1 No's
	24 port D-Link 10/100 MBPS switches	- 3 No's
	24 port D-Link Patch Panel	- 3 No's
4	UPS : EATON 10KVA Online UPS	- 2 No's

NAAC - SELF STUDY REPORT

Computer Lab – 11 :Digital Library

SNo	Particulars	Quantity
1	Desktops : Brand - HP 280 G1 MT Intel Dual CoreG3250 3.2Ghz Processor, 2GB DDR3 Ram, 500 GB SATA HDD, 1000 Mbps Onboard Ethernet, 18.5” LED Monitor, HP USB Optical Mouse &Keyboard.	30 Systems
2	12u Valrack Mount Rack	1 No’s
	8 port Giga Byte switch	1 No’s
	24 port D-Link 10/100 MBPS switches	3 No’s
	24 port D-Link Patch Panel	3 No’s
3	UPS : EATON 10KVA Online UPS	2 No’s

Central Computing Facility:

Stand alone systems:

SNo	Particulars	Quantity
1	Desktops : Brand - HP 280 G1 MT Intel Dual CoreG3250 3.2Ghz Processor, 2GB DDR3 Ram, 500 GB SATA HDD, 1000 Mbps Onboard Ethernet, 18.5” LED Monitor, HP USB Optical Mouse &Keyboard.	126 Systems
2	12u Valrack Mount Rack	2 No’s
	8 port Giga Byte switch	2 No’s
	24 port D-Link 10/100 MBPS switches	6 No’s
	24 port D-Link Patch Panel	6 No’s

Specification:

Licensed software

		Application	System
1.	Relevant Legal Software	Microsoft Word 2010 Microsoft Excel 2010 Microsoft Frontpage Microsoft Outlook Microsoft Access	Windows XP Pro Windows Vista Ultimate Edition Windows 7 ultimate Edition

NAAC - SELF STUDY REPORT

		Microsoft Powerpoint C C++ Java EZ School Student Management K-Van Multimedia Lab K-Van Advanced Comm. Skills GlobarenaEL and CL clients Xylinx Labtech Microsoft Visual Studio Microsoft Visual Studio .net Microsoft SQL Server Microsoft Sharepoint Server	Windows 2008 server Redhat Enterprise Linux
2	Peripheral(s) / Printers	Printers HP Laser Jet 1020 Printer - 4No Cannon LBP 1210 Printer - 3 No's Cannon LBP 2900Printer - 12 No's Color Printer - 1 No HP Laser jet M1213nf MFP - 1 No's Ricoh SP 1200S - 1 No's Samsung SCX4521F - 2 No's ARGOX OS2140 Barcode Printer - 1 No's	
3	Internet Accessibility (in KBPS &Hrs)	10 MBPS – Unlimited - BSNL Leased Line 10 MBPS – Unlimited - BSNL Broadband Line 10 MBPS – Unlimited - BSNL Broadband Line 15 MBPS – Unlimited - Orange Net Broadband	

Power Backup:

- EATON 18X10 KVA Online UPS
- VGUARD 2X10KVA online UPS for power backup.
- Two Generators of total capacity 125 KVA POWERICA each are available under power failure conditions
- 24 hours HT 200 KVA power supply

4.3.2 Detail on the computer and internet facility made available to the faculty and students on the campus and off-campus?

- Internet service is available for both faculty and students in the campus. 125 systems are provided with internet facility in the central computing centre

- All the departmental computing centers are provided with internet facility
- 30 systems are provided with internet facility in the central library
- Internet service is provided to both girls and boys hostels
- The College provides internet facility to staff members at the respective departments so that they can update their knowledge with latest developments and also avail e-resources which help them in improvising teaching - learning process.
- The Principal's Office, Administrative Office, Examination Section, Training and Placement Cell and Senior Faculty member cabins are provided with internet facility

4.3.3 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

Computer systems are upgraded with latest configuration once in three years.

- Individual up gradation of the computers is taken up as per the needs and requirements of the various departments.
- Enough provision is made available in the annual budgets for the procurement of the computer systems.
- Once new systems are procured, they replace the existing systems as per the requirements of the departments.
- All the computer systems in the campus are regularly monitored by the system administrator and maintenance staff.
- The trouble/problems experienced by the computers in the various laboratories are entered by the lab programmers/technicians in the complaint register which is kept in the server room.
- The maintenance staff will then go to the respective labs for identification of the problems and resolve the same at the respective places.
- In case of major problems i.e. replacement of component/part during warranty, they are sent to the respective service centers and got replaced at the earliest.
- Computer centre is provided with four servers of different capacities to cater to the computer requirements.

4.3.4 Provide details on the provision made in the annual budget for procurement, up gradation, deployment and maintenance of the computers and their accessories in the institution (Year wise for last four years)

Amount spent for procurement, up gradation, deployment and maintenance of the computers and their accessories in the institution during last four years:

Year	2015-16	2014-15	2013-14	2012-13
Amount Spent (Rupees)	166820	190376	95225	1061212

4.3.5 How does the institution facilitate extensive use of ICT resources including development and use of computer-aided teaching/ learning materials by its staff and students?

- The Institution has adequate computer facility for its faculty. Faculty members are provided with computers with internet facility for preparation of teaching/learning materials in their respective departments.
- The faculty are encouraged to use power point presentations for delivering lectures and technical talks.
- Lesson plans are prepared in a standard format in the computer.
- Attendance, internal assessment and University marks are software based.
- Students' feedback is taken on-line and analysis of students' feedback is generated using software.
- Centralized database system is available both for staff and students.
- Every department has 3 LCD projectors.
- Internet access to all faculty and students help them to access journal, e-learning material available in other universities and make use of the same for knowledge enhancement.
- In the departmental seminars organized by students, they are encouraged to use latest methodologies for their presentations.
- Using NPTEL, MIT and other e-learning resources for self-paced learning that supplements regular lectures.

4.3.6 Elaborate giving suitable examples on how the learning activities and technologies deployed (access to on-line teaching learning resources, independent learning, ICT enabled classrooms/learning spaces etc.) by the institution place the student at the centre of teaching-learning process and render the role of a facilitator for the teacher.

NAAC - SELF STUDY REPORT

- To make the student attentive and engaged throughout the class is a challenge to every teacher. This is possible through effective and interactive teaching. Apart from teaching and knowledge of faculty, PPT and relevant videos help the students to easily grasp the concepts and gain maximum information. Hence the entire faculty are encouraged to use such methodologies.
- JNTUK runs COEdRD portal for students and staff to browse/download subject wise e-contents
- To effectively utilise the internet facility, e-learning material are made available to the faculty and students.
- In the library e-learning material (NPTEL video lectures) and the accession of online lectures of various experts from various affiliated institutions.

4.3.7 Does the Institution avail of the National Knowledge Network connectivity directly or through the affiliating university? If so, what are the services availed of?

Yes, the service is availed of through NPTEL and online courses of various IITs.

4.4 Maintenance of Campus facilities

4.4.1 How does the institution ensure optimal allocation and utilization of the available financial resources for maintenance and upkeep of the following facilities (substantiate your statements by providing details of budget allocated during last four years)?

Particulars	2016-17	2015-16	2014-15	2013-14
Salaries	64262033	50519026	45392556	44325020
Lab Maintenance	1115640	544406	474636	250704
Electricity	4487056	3045627	3550835	1948548
Training& travelling	2731571	1828606	1145745	1401717
Building	25361761	24554355	25562479	36975383
Computers	2178000	6787763	951248	5284400
Furniture	3254585	1386318	2619705	5099698
Fire Safety	1435050	50000	50000	50000
Generator	1530000	1285000	855000	665000
Lab Equipment	543683	1068435	1841598	3228988
Library	3145	49560	69532	654530
Vehicles – Buses	6102279	579236	496523	19277325
Others	120943	564750	534250	907018
TOTAL	111595746	89230851	82073052	120018331

4.4.2 What are the institutional mechanisms for maintenance and upkeep of the infrastructure, facilities and equipment of the college?

- The annual maintenance of the equipments in all labs is thoroughly done regularly.
- The teaching and non-teaching staff are engaged in this activity and ensure that all equipments are functioning well and also seek external support if needed during the period. This ensures the teaching and learning process run smoothly in all aspects throughout the year.
- The stock verification is done during the same period to identify the non working equipments and suggest necessary replacements.
- Regular cleaning and up keep of the equipment is taken care of by the lab in-charge.

4.4.3 How and with what frequency does the institute take up calibration and other precision measures for the equipment/instruments?

- The calibration process will be taken up by each department for various equipments as per the time frequency suggested by the supplier.
- Historical data of each equipment maintained in the labs where the measured values are compared with earlier measured data and also with the standard values. Any deviation in this regard will be noted and necessary steps are initiated by calling technicians from the supplier.

4.4.4 What are the major steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water etc.)?

The institution has two 125 KVA generators which helps in continuous power supply without any interruption. The computer systems and other sensitive lab equipment are provided with UPS systems to protect them against voltage fluctuations. All precautions are taken to protect the precision equipment by providing CVT's and individual MCB's. Covers are provided wherever needed to protect the sensitive equipment from dusty environment. Electrical grounding (Earthing) is provided at important locations. Fire extinguishers are provided in all hazardous places including labs. Purified drinking water is provided in the college through water coolers.

CRITERION V: **STUDENT SUPPORT AND PROGRESSION**

5.1 Student Mentoring and Support

5.1.1 Does the institution publish its updated prospectus/handbook annually?

If 'yes', what is the information provided to students through these documents and how does the institution ensure its commitment and accountability?

Yes the Institution does publish both Prospectus and Handbook annually

- In case of brochure, the Institution provides information regarding various Branches of Engineering courses offers, infrastructure facilities available in the college, previous results, information regarding placements during last few years and the facilities provided for placements and training . It is circulated among prospective students to choose admission in the Institution.
- Hand Book is printed every year with most updated information. The Book is made ready for distribution to the parents and students who are newly admitted to the institution on the first day of college during the interactive session conducted by the Principal and Management. An invitation is extended to all the parents by means of a phone call and SMS to attend this interactive session.
- This Hand book contains various courses offered along with the titles of the papers in each semester and also University regulations regarding various courses and the examination pattern. It also contains the Faculty in each branch with HoD name, contact number and email address. It contains the College Rules and Regulations along with the punishments in case of violation of rules. Names and contact number of various Committees such as Anti-ragging Committee, Disciplinary Committee etc. are also provided in the Handbook. A brief history of the College along with the citations of the important persons of Management and College are also provided in the book.

5.1.2 Specify the type, number and amount of institutional scholarships / free ships given to the students during the last four years and whether the financial aid was available and disbursed on time?

- The College is situated in a remote rural area and more than eighty percent of the students join in this institution come from poor rural background. Children belonging to economically and socially

NAAC - SELF STUDY REPORT

backward prefer to join in the institution as the institution provides financial facilities to them. Even those belonging to forward caste but are poor reach the management in tens of numbers every year for the financial help to educate their wards in Engineering Courses. The Management extends its helping hand by collecting less fees than the Government prescribed fee. Sometimes the Management completely waives off the fee and provides free education depending on the social and financial background of the student along with their merit and enthusiasm for higher studies.

Table Showing the Number and Amount of Financial Aid Extended by the Institution

Category	2015-16		2014-15		2013-14		2012-13	
	Number	Amount	Number	Amount	Number	Amount	Number	Amount
		Rs.		Rs.		Rs.		Rs.
SC	18	1,80,000	15	1,50,000	11	1,10,000	08	80,000
ST	0	----- -	0	----- -	0	----- --	0	-----
BC	12 8	10,24,00 0	11 5	9,20,000	98	7,84,000	76	6,08,000
EBC	14 2	11,36,00 0	11 9	9,52,000	10 1	8,08,000	79	6,32,000
MINORITY	14	1,40,000	10	1,00,000	08	80,000	06	60,000
OTHERS								
TOTAL	30 2	24,80,00 0	25 9	21,22,00 0	21 8	17,82,00 0	16 9	13,80,00 0

5.1.3 What percentage of students receive financial assistance from state government, central government and other national agencies?

More than ninety percent of students admitted into the Institution through Convener Quota receive scholarships. Some of the students receive scholarships and financial aid from different Social Service Organizations and philanthropist Trusts and individuals. Following are the details of Scholarships and Financial Aid received from such

NAAC - SELF STUDY REPORT

organizations

Category	2015-16		2014-15		2013-14		2012-13	
	Number	Amount	Number	Amount	Number	Amount	Number	Amount
		Rs.		Rs.		Rs.		Rs.
Government – SC Corporation	237	1,09,47,400	223	90,97,100	200	72,47,500	193	65,57,000
Government – ST Corporation	12	6,07,200	11	5,13,200	14	4,71,900	18	5,97,300
Government – BC Welfare Commission	714	2,56,11,000	650	2,30,34,000	592	2,02,26,500	508	1,68,50,700
Government from EBC Commission	820	2,73,24,600	764	2,71,16,000	613	2,13,52,000	417	1,38,83,300
Government – MINORITY Commission	127	44,45,000	112	38,66,500	94	31,83,500	65	21,68,300
TOTAL	1910	6,89,35,200	1760	6,36,26,800	1513	5,24,81,400	1201	4,00,56,600

5.1.4 What are the specific support services/facilities available for

- Students from SC/ST, OBC and economically weaker sections.
- Students with physical disabilities.
- Overseas students.

NAAC - SELF STUDY REPORT

- Students to participate in various competitions/National and International.
- Medical assistance to students: health centre, health insurance etc.
- Organizing coaching classes for competitive exams.
- Skill development (spoken English, computer literacy, etc..)
- Support for “slow learners”.
- Exposures of students to other institution of higher learning/ corporate/business house etc.
- Publication of student magazines.

The Management has created elaborate facilities to the students belonging to downtrodden groups of the society along with differently abled students.

Following is a brief summary of different facilities made available to such students.

Students from SC/ST,OBC and economically weaker sections:

Apart from these students receiving fee reimbursement and financial aid in the form of scholarships from the Government, the Institution on their own extends fee concession in transport, payment of special fees, Hostel fees, providing college uniforms, sportswear and equipment.

Special Classes and guidance have been extended to these category students who are weak in their studies by conducting coaching classes. They are given special attention by the faculty to clear any backlogs in their studies.

Students with physical disabilities:

Differently abled students are provided with special amenities in the institution such as :

- Providing railings besides steps.
- Providing ramp to the steps.
- Providing special toilet facilities.
- Providing rooms in the ground floor in hostels.
- Providing rooms in ground floor for class rooms

Overseas Students:

No overseas students have been admitted so far in the institution as it requires special permission from the University as well as the Government.

Students to participate in various competitions/National and International:

Faculty and the Principal always encourage students to participate in the National Events conducted by various Institutions in India. Following are the details of events and the number of students participation.

NAAC - SELF STUDY REPORT

S.No	Branch	Year	Event and organization	Number of Students Participated	Prizes and Awards
1	C S E	2014	Android Applications.	1	Secured 2 nd Prize
			QUIZ competition.	3	Secured 1 st Prize
			Paper presentation	4	Secured 1 st Prize, Secured 2 nd Prize
			Ad-Making	1	Secured 3 rd Prize
			Poster Presentation	1	Secured 1 st Prize
2		2015	Cruize Competition	2	Secured 3 rd Prize, Secured 1 st Prize
			web wizard competition	1	Secured 1 st Prize
			technical quiz	1	Secured 2 nd Prize
			Paper presentation	1	Secured 2 nd Prize
			Skill Adda Coding	1	Secured 1 st Prize
			Cracked Spot-Software Contest	1	Secured 1 st Prize
			Technical Quiz	1	Secured 1 st Prize
			Web-Wizards (Web Programming).	1	Secured 1 st Prize
			C-Programming Contest event	1	Secured 1 st Prize
			Cracked Technical quiz	1	Secured 2 nd Prize
3	2016	C-Programming Contest in National level Student Technical Symposium	1	Secured 1 st Prize	
		Paper Presentation	1	Secured 2 nd Prize	
		Website- Design	1	Secured 1 st Prize	
		Developing specified website modules	1	Secured 1 st Prize	
			Paper presentation	1	Secured 1 st Prize

NAAC - SELF STUDY REPORT

			Cracked programming contest	1	Secured 1 st Prize
			spot software contest	3	Secured 1 st Prize, Secured 2 nd Prize, Secured 3 rd Prize
			Paper presentation	2	Secured 1 st Prize, Secured 2 nd Prize
1	IT	2016	Management using IOT	2	Secured 1 st Prize
			Technical Quiz	3	Secured 1 st Prize
			Power Point Presentation	1	Secured 1 st Prize
1	E C E	2014	Project Expo	1	Secured 1 st Prize
			Power Point Presentation	1	Secured 2 nd Prize
			Circuit Designing and Debugging	1	Secured 2 nd Prize
			Circuit Mania	2	Secured 1 st Prize, Secured 2 nd Prize
2	E C E	2015	Robo Race	1	Secured 1 st Prize
			ROBO-ZEST 2015	1	Secured 1 st Prize
3	E C E	2016	Project Expo	2	Secured 1 st Prize, Secured 1 st Prize
			Adventure Robot Competitions	8	ALL Secured 1 st Prize.
			Circuitrix	1	Secured 2 nd Prize
			Tech Trix	1	Secured 2 nd Prize
			Robo War	1	Secured 1 st Prize
			Project Expo	1	Secured 1 st Prize
			Mobile Control Robotics	1	Secured 1 st Prize
			Mouse Trap Racer	1	Secured 2 nd Prize
Yantrora	1	Secured 1 st Prize			
1	MECH	2015	Fastest Auto Cad	1	Secured 2 nd Prize
			Black & White	1	Secured 3 rd Prize
2	MECH	2016	Srujana'16	1	Secured 1 st Prize
			Lakshya-2K16	1	Secured 1 st Prize
1			Dance Solo	1	Secured 1 st Prize
			Soccer League	1	Secured 1 st Prize
			Project Expo	1	Secured 1 st Prize

NAAC - SELF STUDY REPORT

	EEE	2014	Robotics	1	Secured 1 st Prize
			Robo Soccer	1	Secured 1 st Prize
			Robo Duels	1	Secured 1 st Prize
			Project Expo	1	Secured 1 st Prize
			Poster Presentation	1	Secured 2 nd Prize
			Paper Presentation	1	Secured 2 nd Prize
			RoboTerrian Trackers	1	Secured 2 nd Prize
			Tech Trix	1	Secured 2 nd Prize
		2		2015	Project Expo
			Robo Soccer	1	Secured 2 nd Prize

- The Institution provides financial assistance to students to prepare projects and models to participate and compete in the National level competitions.
- The Institution provides financial assistance to students and the accompanying staff for travelling and living expenses to participate in the competitions.
- If any student won any prize in any of these national events, the college honors such students at the College Day Celebrations with a memento and cash prize.
- Students participated in the national level cultural competitions and won many prizes. Vinay Kumar of II ECE-B and K. Swarna Sree of IV CSE-B are the students who participated in such national events and were recorded in the Limca Book of Records.

Medical assistance to students: health centre, health insurance etc:

- The institution is having a MoU with some of the multi-specialty hospitals such as AAYUSH Hospitals, Vijayawada, Royal Orthopaedic Hospital, Vijayawada for the extending medical assistance to students and staff.
- A vehicle with driver is kept ready 24 x 7 to meet the emergency exigencies at hostels .
- The college maintains First-aid kit in the Office and departments, However one lady staff by name Mrs.V. Kalyani is kept in-charge of girl students to meet any medical requirements.
- One Psychiatrist is invited every year to give counseling to students
- Medical Camps for health checkup are conducted periodically to assist students for their medical problems.
- Dental and eye camps are conducted with the help of Lion's Club of Vijayawada Vision every year.

NAAC - SELF STUDY REPORT

- The NSS wing of the College, Conducts Blood donation camps with the help of Red Cross and Loin's Club International and it is a regular activity in the College.

Organizing coaching classes for competitive exams:

- The institution is providing special coaching for competitive examination such as GATE, CAT, GRE, TOFEL, IELTS and GMAT etc.
- The institution provides special coaching through its Training and Placement Cell in English Language, Comprehension, Analytical abilities, Group Discussions, Mock Competitive exams, Mock interviews etc.
- The Placement cell also gives coaching in basic computer programming and knowledge in various other fields.
- A special wing in the library has been created for keeping latest books to prepare for competitive examinations.
- Students are provided with free Wi-Fi facility to gather information relating to job market and to prepare for the competitive examinations.
- The College Library is kept open to students from 9.00 am to 8.00 pm to make them prepare online for the competitive examinations.

Skill development (spoken English, computer literacy, etc...)

- Right from the admission every student is encouraged to converse in English language with teachers and among themselves.
- From the second year (3rd Semester) onwards soft skills such as communicative skills through audio visual equipment, PowerPoint presentation and interactive training sessions are imported
- Arithmetic Aptitude by imparting fundamental concepts and practical exercises.
- Logical and critical reasoning skills through in-house designed and developed curriculum prepared by the Training and Placement Cell.
- Additional computer skills such as Web-Technologies, MS Office etc. are imparted to students by the concerned faculty.

Support for “slow learners”:

As this is a rural based Engineering College and the students are mostly from background with regional language schooling .Most of the students are “slow learners”. This has been recognized by the institution right from the inception. Keeping this in view the Management shows special care for those slow learners.

Following are some of the measures taken by the Institution in this regard

- Extra Classes for these students are arranged beyond the college hours.

NAAC - SELF STUDY REPORT

- Special coaching classes are arranged on Sundays and holidays for those who wish to have coaching in a particular subject. Each class has been divided into groups of 15 students and a teacher is made in-charge of them. It is the duty of that teacher to monitor those students regarding their progress in class besides their behavior and character.

Publication of student magazines:

- The College publishes newsletters frequently. A student club known as “Public Relations Society” is set up in the campus through which students are encouraged to post their ideas.
- Teachers encourage students to write and publish articles in the magazines that are published by other colleges.

5.1.5 Describe the efforts made by the institution to facilitate entrepreneurial skills, among the students and the impact of the efforts.

The institution has created a separate cell, known as, ‘Entrepreneurship Training Cell’ with Sri B. V. S. Prasad, Faculty of Training and Placement Cell as Co-ordinator to Inculcate, encourage and help the students in entrepreneur skills.

Every year there will be two or three workshops conducted by bringing the experienced entrepreneurs and innovators.

For the last four years, batches of budding entrepreneurs are taken to the work shop conducted by IIT, Kharagpur by Sri B. V. S. Prasad.

Following are the details of the workshops conducted and workshops attended by the students.

S.No	Year	Event and organization	Place	Number of Students Participated
1	20 October 2013	Entrepreneurship Awareness Drive (EAD-13)	Tummalapali Auditorium, Vijayawada	1000
	January 12,13 and 14, 2014	Global Entrepreneurship Summit (GES-14)	IIT, Khargpur	80
	March 8, 2014	Start Up Saturday	NRIIT Campus	150

NAAC - SELF STUDY REPORT

2	March, 2015	A three day workshop to create awareness on entrepreneurship	NRIIT Campus	100
	January 13 and 14 and 15, 2015	Global Entrepreneurship Summit (GES-15)	IIT, Khargpur	80
3	February 27, 2016	Startup India- Workshop on entrepreneurial skills	NRIIT Campus	125
	January 14,15 and 16 2016	Global Entrepreneurship Summit (GES-16)	IIT, Khargpur	80
4	8 March 2017	One Day Workshop on Developing Women Entrepreneurs	NRIIT Campus	200

5.1.6 Enumerate the policies and strategies of the institution which promote participation of students in extracurricular and co-curricular activities such as sports, games, Quiz competitions, debate and discussions, cultural activities

- Students are encouraged to participate in extracurricular activities, games and sports and cultural activities conducted in the college as well as competitions conducted anywhere in India. For this purpose the college offers special coaching in various sports and cultural activities.
- It is mandatory for the NSS volunteers to participate in the social activities and NSS camps conducted by the college at rural areas.
- The college conducts intra mural competitions in sports and games, fine arts and cultural competitions and award prizes.
- Various Clubs are formed to encourage students to participate. A list of such Clubs is furnished here below.
- Students who participate in any event outside the Institution is given special leave / permission with attendance.
- Deffered internal examinations are conducted for such students.
- Lab experiments and examinations are conducted separately for these students.

NAAC - SELF STUDY REPORT

S.No	Name of the Club	No of Activities 2016-17	In-Charge	Number of Participants
1	TECHINODE	6	Ms. T. Vijaya Sri , Ms I.Datta Sravani	153
2	STUDENT'S ACTION CENTRE	2	Dr. K.V. Sambasiva Rao	123
3	LITERARY AND DEBATING CLUB	2	Mrs. Y. Madhavi , Mrs. M. Anuradha	45
4	CULTURAL CLUB	2	Dr. D. Kailasa Rao	236
5	GALILEO CLUB	1	Dr. M.V.N Sarma	24
6	RAMANUJAN CLUB	2	Mr. M. Srinivasulu	18
7	SPORTS CLUB	2	Mr. P. Gowtu	128
8	PUBLIC RELATIONS SOCIETY	Published one	Mr. S. Sriharsha , Mrs. T. Sreelatha	12

5.1.7 Enumerating on the support and guidance provided to the students in preparing for the competitive exams, give details on the number of students appeared and qualified in various competitive exams such as UGC-CSIR- NET, UGC-NET, SLET, ATE / CAT / GRE / TOFEL / GMAT /Central /State services, Defense, Civil Services, etc.

As stated above, the College has created a separate cell known as Training and Placement cell. The task of giving necessary coaching and necessary training has been assigned to this cell. This cell conducts the following coaching and training classes to the students right from their time of joining the college.

- Training in spoken English is imparted through software specially bought for the purpose.
 - a. Gloabarina Technologies Ltd., developed English Lab.
 - b. A. P. State Council of Higher Education developed Foundation Course in Communication Skills.
- Mock tests are conducted in spoken skills in the class rooms.
- Group discussions are very common in the college.
- Material required for preparation of UGC-CSIR, NET, UGC-NET,

NAAC - SELF STUDY REPORT

SLET, ATE, CAT and GRE are kept in the library.

- Internet is provided in the Library to the students to practice online tests in these examinations.

Following table shows the strength of students qualified in different competitive examinations:

Students Selected in GATE / GRE / TOFEL / MAT etc.

Course Academic year	CIVIL	MECH	CSE	ECE	EEE	IT
2015-16	1	4	8	2	8	5
2014-15	3	4	3	-	6	4
2013-14	-	-	-	-	7	2
2012-13	-	-	-	-	8	

5.1.8 What type of counselling services are made available to the students (academic, personal, career, psycho-social etc?)

Academic Counselling:

Each class has been divided into groups of 15 -20 students. One teacher mentor is made in-charge of each group. The concerned teacher mentor meets the group and individually each student to counsel them regularly. In case any student is backward in any subject, the concerned teacher mentor arranges for special tutorial with the teacher concerned. It is the duty of the in-charge teacher to regularly contact the parents of his group and apprise them about the progress of his ward.

Personal Counselling:

Each class/Section has a In-charge teacher. All the in-charge teachers are formed into a group in each branch to give personal counseling to students. All the personal problems with regard to college in general, his friends, any teacher or teaching in particular, family problems, problems he/she facing in coming to the college, family related problems, health issues etc. may be brought to this expert group who

NAAC - SELF STUDY REPORT

help them to solve the problem or give advises to overcome such problems.

Panel of Counselling In-charges.

S.NO	CLASS and SECTION	IN-CHARGE
1	Civil IV Section-A	Mr. CH. VEEROTTAM KUMAR
2	Civil IV Section-B	Mr. N. MADHAVA
3	Civil III Section-A	Mr. K. BHASKARA RAO
4	Civil II Section-A	Mr. B. UDAY SANKAR
5	Civil II Section-B	Mrs. R. HEMASRI PHANINDRA
6	ECE IV Section A	Mr. B.Y. GOPINATH
7	ECE IV Section B	Ms. P.B. SUDHA RANI
8	ECE IV Section C	Mr. M. SUNEEL
9	ECE III Section A	Mr. D. RAVI SHANKAR
10	ECE III Section B	Mr. G. SRINIVAS BABU
11	ECE III Section C	Mr. V. SRINIVASA RAO
12	ECE II Section A	Mr. P. VENU GOPAL
13	ECE II Section B	Mr. N. SRIKANTH
14	ECE II Section C	Mr. M.S.S.S. SRINIVAS
15	EEE IV	Mr. I. PRASANNA KUMAR
16	EEE III	Mrs. P.BHAVANI
17	EEE II	Mr. R. RAGHUNADHA SASTRY
18	CSE IV Section A	Mrs. P.V. ANUSHA
19	CSE IV Section B	Mr. M.V.N. UMAMAHESWARA RAO
20	CSE IV Section C	Mrs. M. ARUNA
21	CSE III Section A	Mr. P. NARENDRA BABU
22	CSE III Section B	Mr. G. KARUNAKAR
23	CSE III Section C	Mrs. J. PRAVEENA
24	CSE II Section A	Mrs. S. SIVA LELLA
25	CSE II Section B	Mr. P. RAGHUVEER
26	CSE II Section C	Mrs. D. SUNEETHA
27	MECH IV Section A	Mrs. K. VIDHYA
28	MECH IV Section B	Mr. G.S.R.N. MALLESWARA RAO
29	MECH III Section A	Mr. K. MANI KUMAR
30	MECH III Section B	Mr. CH. NAVEEN KUMAR
31	MECH II Section A	Mrs. K. ANUSHA
32	MECH II Section B	Mr. K.V. REDDY
33	MECH II Section C	Mr. N. SHYAM BABU
34	MCA III	Mr. K. CHANDRA MOULI

NAAC - SELF STUDY REPORT

35	MCA II	Mrs. K. UDAY SRI
36	MCA I	Mrs. L. KAVITHA

Carrer Counselling:

- The college has constituted a dedicated Department known as “Training and Placement Cell” that consists of English Faculty exclusively to impart Soft Skills for the students.
- Soft Skill Training programmes are regularly conducted right from the time of joining the Institution.
- Slots are allotted within the regular time table.
- Training & Placement Cell regularly conducts group discussions, just a minute (JAM) and orientation and training programmes for the students.
- Mock interviews are conducted to prepare them for placement and to face the interviews.
- The college has established a Communication Skills Lab. The lab helps to improve the communication skills of students.
- The Training and Placement cell customizes the course structure according to the needs of the placement company.

Psycho-Social Counselling:

5.1.9 Does the institution have a structured mechanism for career guidance and placement of its students? If ‘yes’, detail on the services provided to help students identify job opportunities and prepare themselves for interview and the percentage of students selected during campus interviews by different employers (list the employers and the programmes).

“YES” The College has a system to provide career guidance and placements through specially constituted Training and Placement Cell. A group of Placement Officers are assisted by group Soft skills trainers who impart skills pertaining to arithmetic aptitude, critical and logical reasoning, oral and written communicative skills in English and additional technical support in terms of imparting computer related skills.

The main activities of training and placement cell are:

- In-house training
- Mock recruitment process

In-house Training:

Following in-house training is imparted to students

- Team Plying Skills

NAAC - SELF STUDY REPORT

- Leadership Skills
- Motivation Skills
- Problem solving skills
- Analytical Skill
- Interpretation and perception skills
- Decision Making Skills
- Prioritization and Time Management Skill
- Creative Skills
- Crisis Management Skills

Mock Recruitment Process:

To train the students ready to face recruitment process the Training and Placement cell train them by conducting

- Online practice test
- Group discussions
- JAM (Just a Minute)
- Mock interviews
- Case study practice
- Picture Perception
- Essay writing
- Psychometric
- Resume Writing

List of Companies Visited and students placed in Placement Drives (2015-2016)

S.NO	COMPANY	SELECTED
1	TECH MAHINDRA	29
2	HEXAWARE TECHNOLOGIES	24
3	INFOSYS	9
4	WIPRO	2
5	MPHASIS	4
6	NTT DATA	2
7	SLK SOFTWARE	4
8	TCS	12
9	TECH TAMMINA PVT. LTD.	14
10	CMS	72
11	UX REACTOR	3
12	SYNTEL	5
13	FLEXIWARE SOLUTIONS	9
14	GOOD THROUGH	6
15	GEMINI COMMUNICATIONS	11
16	NETAFIM INDIA LTD.	9
17	RETAILON	7
18	VEE TECHNOLOGIES	32

NAAC - SELF STUDY REPORT

19	ACCEL FRONTLINE GLOBAL IT SERVICES	3
20	RASTER ENGINEERS	4
21	JAIN IRRIGATIONS SYSTEMS LTD.	13
22	MEDPLUS	14
23	AGS HEALTH CARE	14
24	RAMTECH CORP	10
25	JSKILZ	17
26	CADSYS	8

List of Companies Visited and students placed in Placement Drives (2014-2015)

S.NO	COMPANY	SELECTED
1	TECH MAHINDRA	34
2	ATOS	18
3	VALUE LABS	5
4	SUTHERLAND GLOBAL SERVICES	13
5	NTT DATA	2
6	INFOSYS	4
7	VIRTUSA	3
8	MPHASIS	2
9	DIGITAL JUICE	1
10	WIPRO	8
11	EIDER MOTORS	1
12	EFFTRONICS	1
13	KNOAH SOLUTIONS	3
14	MIRACLE SOLUTIONS	1
15	CSS CORP	2
16	CADEPLOY	5
17	ELICO	22
18	TCS	2
19	LG SOFT	1
20	TPCIL	1
21	ECLERX	10
22	CADSYS	4
23	ZEN3	5
24	TATA BSS	3
25	SYNTEL	11
26	INPLENION	2
27	MEDICO	11
28	AGS HEALTH	24

NAAC - SELF STUDY REPORT

Placements in 2015-16 ----- 341
Placements in 2013-14 ----- 164

Placements in 2014-15 ----- 199
Placements in 2012-13 ----- 303



UXRector Selected 3 Members and TechTammina Selected 13 Members



SLKDATA Selected 10 Members



SLKDATA Selected 1 Member and INFOSYS Selected 9 Members

NAAC - SELF STUDY REPORT



NTTDATA Selected 1 Member and MPHASIS Selected 4 Members

ఎన్ఆర్ఐలో ప్రాంగణ ఎంపికలు

పోతవరప్పాడు (ఆగరివల్లి) : మండల పరిధిలోని పోతవరప్పాడు ఎన్ఆర్ఐ ఇంజనీరింగు కళాశాలలో అచ్యుతా బాబ్కు చెందిన పెక్కివేర సొల్యూషన్స్ ప్రైవేట్ లిమిటెడ్ సంస్థ ఆధ్వర్యంలో గురువారం క్యాంపస్ ఇంటర్వ్యూలు జరిగాయి. కళాశాల చైర్మన్ ఆర్.వెంకట్రావు, ప్రెసిసిపాల్ సి.నాగబాస్కర్ మాట్లాడుతూ పీఐఐ కంప్యూటర్ సైన్స్, ఐటీ, ఎంసీఏఐఐ చెందిన 70 మంది విద్యార్థులు పాల్గొన్నారు. రాత పరీక్షల్లో 45 మంది విద్యార్థులు అర్హత సాధించారని, అనంతరం నిర్వహించిన టెక్నికల్, మానవ వనరుల ఇంటర్వ్యూలో 9 మంది అర్హత సాధించారు. ఇమిడికి ఉపాధి అవకాశాలు లభించారని



ఎంపికైన విద్యార్థులతో కళాశాల యూజమాన్యం
కళాశాల కార్యదర్శి కె.శ్రీధర్ తెలిపారు. విద్యార్థులను కళాశాల సెల్సుంది ఆదేశించినారు.

లారన్సాబ్స్ తో ఎన్నారై ఫార్మస్ కళాశాల ఒప్పందం

పోతవరప్పాడు(ఆగరివల్లి), న్యూస్టుడే: స్థానిక ఎన్నారై ఫార్మస్ కళాశాల విద్యార్థులకు ఐంటర్నల్ అవకాశం కోసం హైదరాబాద్కు చెందిన లారన్సాబ్స్ తో అవగాహన ఒప్పందం కుదిరినట్లు కళాశాల ప్రెసిపాల్ వైపి రాధరి తెలిపారు. ఈ సందర్భంగా శుభవారం కళాశాల్లో జరిగిన కార్యక్రమంలో లారన్సాబ్స్ ఎగ్జిక్యూటివ్ చైర్మన్ రవికుమార్ పార్థివకు విధానాలకు అనుగుణంగా వైఫల్యాలు పెంపొందించుకునేలా విద్యార్థుల ఆలోచనా విధానంలో మార్పు రావాలని తెలిపారన్నారు. ఐంటర్నల్ ద్వారా పరిశ్రమ అవసరాలకు అనుగుణంగా పనిచేసే విధానం అవగాహన కలుగుతుందని, పరిశ్రమల అవసరాలకు తగిన పరిష్కారాన్ని అలవరచుకోవాలని విద్యార్థులకు అడుగు మూవించారన్నారు. కార్యక్రమంలో కళాశాల చైర్మన్ ఆర్.వెంకట్రావు, లారన్సాబ్స్ హెచ్ఆర్ఐ సి.నరసింహారావు, బి.రామకృష్ణ విద్యార్థులు పాల్గొన్నారు. ప్రెసిపాల్ సేల్స్ నేర్పన్నారు.



ఎంపికైన విద్యార్థులతో కళాశాల చైర్మన్ వెంకట్రావు తదితరులు

ప్రాంగణేతర ఎంపికల్లో 16 మందికి ఉద్యోగాలు

పోతవరప్పాడు(ఆగరివల్లి), న్యూస్టుడే: స్థానిక ఎన్నారై ఇంజనీరింగ్ కళాశాల్లో ఢిల్లీలోని గుర్గావ్కు చెందిన టేస్టాన్స్ సంస్థ నిర్వహించిన ప్రాంగణేతర ఎంపికల్లో 16 మంది విద్యార్థులు ప్రతిభ చాటారు. చైర్మన్ ఆర్.వెంకట్రావు, ప్రెసిపాల్ సి.నాగబాస్కర్లు బుధవారం తెలిపారు. ఈ నియామకాల్లో జిల్లాలోని వివిధ కళాశాలలకు చెందిన 125 మంది విద్యార్థులు హాజరయ్యారన్నారు. రాత బృంద పరీక్ష పోటీకి పరీక్షల్లో తుదిగా 16 మంది ఎంపికైనట్లు వారు సేల్స్ నేర్పన్నారు. కార్యక్రమంలో కళాశాల ప్రాంగణ ఎంపికల అధికారి జి.ఎద్దుర్తరాజు, విభాగాధిపతులు తదితరులు పాల్గొన్నారు.

ముగ్గురు విద్యార్థులకు ఉద్యోగాలు



విద్యార్థులకు ద్రువపత్రాలను అందిస్తున్న కళాశాల చైర్మన్

నూజివీడు గ్రామీణం, న్యూస్టుడే: ప్రాంగణ ఎంపికల్లో తమ కళాశాలకు చెందిన ముగ్గురు విద్యార్థులకు మద్రాసు లోని ఎన్ఎస్ఎస్ కంపెనీలో ఉద్యోగాలు లభించినట్లు ఎన్నారై కళాశాల చైర్మన్ ఆర్.వెంకట్రావు తెలిపారు. పరీక్షలలోని కేవల యూజిలో 26, 27 తేదీల్లో ఎన్ఎస్ఎస్ ప్రాంగణేతర ఎంపికలను నిర్వహించిగా శంష్యుటర్ సైన్స్ విభాగం నుంచి పుజన, కళ్యాణ్, రమ్య దుర్గ ఉద్యోగాలు పొందినట్లు చెప్పారు. ప్రెసిపాల్ సి.నాగబాస్కర్, కార్యదర్శి కె.శ్రీధర్ లు విద్యార్థులను అభినందించారు. కార్యక్రమంలో ఉపాధి కల్పనాధికారి శ్రీహరి పాల్గొన్నారు.

ఎన్నారై విద్యార్థులకు ఉపాధి అవకాశాలు



ఎయిడెన విద్యార్థులను అణచివేస్తున్న ఛార్జ్స్ తదితరులు

పోతవరమ్మపాడు(ఆగిరిపల్లి), న్యూస్టుడే: స్టూడింట్స్ ఎన్నారై కళాశాలకు చెందిన 9 మంది విద్యార్థులు 'ఇన్ఫో' సెస్ లో ఉపాధి అవకాశాలు పొందినట్లు చైర్మన్ ఆర్ వెంకట్రావు తెలిపారు. గుంటూరు 'కెన్సెస్' ఇంజనీరింగ్ కళాశాలలో ఈ నెల 8 నుంచి 11 వరకు ఇన్ఫోసెస్ నిర్వహించిన ప్రాంగణోత్సవ ఎంపికల్లో విద్యార్థులు ఎంపిక కాగా, ఈ మేరకు మంగళవారం ఉత్తర్వులు అందినట్లు ఆర్యసన్ పేర్కొన్నారు. అయినతో పాటు ప్రెస్టెజియస్ సి నాగభాస్కర్ ఏవో మాదవరావు, ప్రెస్టెజియస్ ఆదికారి రవి తదితరులు ఎంపికైన విద్యార్థులను అభినందించారు.

ఎన్నారై కళాశాలకు 'ఎ' గ్రేడు

పోతవరమ్మపాడు(ఆగిరిపల్లి), న్యూస్టుడే: రాష్ట్ర ప్రభుత్వం సూత్రంగా ప్రవేశపెట్టిన ఇంజనీరింగ్ కళాశాల గ్రేడింగ్ విధానంలో స్టూడింట్స్ ఎన్నారై ఇంజనీరింగ్ కళాశాలకు 'ఎ' గ్రేడు గుర్తింపు లభించినట్లు కళాశాల ప్రెస్సిడెంట్ సి.నాగభాస్కర్ తెలిపారు. కాడినాడ జేఎన్టీయూ పరిధిలోని 198 అనుబంధ కళాశాలల్లో 47 కళాశాలలకు 'ఎ' గ్రేడు గుర్తింపు లభించినట్లు ఆయన పేర్కొన్నారు. జిల్లాలోని 28 కళాశాలల్లో 9 కళాశాలలకు 'ఎ' గ్రేడు లభించగా అందులో ఎన్నారై ఒకటని ఆయన తెలిపారు. కళాశాల స్థాపించిన సంవత్సరం నుంచి విద్యావిషయాలు, పథికాలు, క్రమశిక్షణ, మౌలిక వసతుల కల్పన, ప్రాంగణ ఎంపికల్లో పొందిన కృషికిగాను 'ఎ' గ్రేడు గుర్తింపు లభించినట్లు ఆయన తెలిపారు. కళాశాలకు లభించిన ఈ గుర్తింపులో కళాశాల కార్యదర్శి, కలెక్టర్, డి.ఎం.ఆర్, ప్రెస్సిడెంట్ సి.నాగభాస్కర్, ఉపాధ్యాయులు, ఉపాధ్యాయేతర సిబ్బంది కృషి ఎంతో ఉందని కళాశాల వ్యవస్థాపక చైర్మన్ ఆర్.వెంకట్రావు తెలిపారు. ఈ మేరకు వారిని, విద్యార్థులను ఆయన అభినందించారు.

ఇంజనీరింగ్ కళాశాలలకు గ్రేడుల కేటాయింపు

* రెండు తీర్మానాలు 94 కళాశాలల్లో 60% స్థానం * ఏ గ్రేడులో 16 కళాశాలలు

ప్రతిపాడు, న్యూస్టుడే : రాష్ట్రంలోని ఇంజనీరింగ్ కళాశాలలకు ప్రభుత్వం చేపడించిన అవకాశంగా గ్రేడులు కేటాయించబడి, అందులో గుంటూరు, కృష్ణా జిల్లాల్లోని 60 ఇంజనీరింగ్ కళాశాలలకు 'ఎ', 'సి', 'డి' గ్రేడులు లభించాయి. రెండు తీర్మానాల్లో మొత్తం 16 కళాశాలలకు 'ఎ' గ్రేడు లభించింది. ఈ ప్రాంతంలోని మిగిలి 94 కళాశాలలకు అసెంబ్లీ ఎంచుకుంటే గ్రేడులు లభించవచ్చునని గవర్నరాజ్యం, సచివాలయం 12వ రాష్ట్ర ప్రభుత్వం విశ్వవిద్యాలయాల వారిగా ఇన్ఫో, టెలికామ్యూనికేషన్ కళాశాలలకు 'సి', 'టి', 'డి' లాంటి గ్రేడులు ప్రకటించింది. కృష్ణా, గుంటూరు జిల్లాలలో మొత్తం 94 ఇంజనీరింగ్ కళాశాలలు, అందుగా అందులో 60 కళాశాలలకు మాత్రమే గ్రేడులు లభించాయి.

ఇందులో రెండు తీర్మానాల్లోని ఆరువేళ శాతం, గుర్తింపులే, ఎలోవిసిటి, కె.ఆర్, ఎన్ఆర్ఐ, సి.టి.సి, సి.ఎ.సి, వి.ఎ.సి, వి.ఆర్.

సి.ఎ.సి, వి.ఆర్, ఎన్ఆర్ఐ, సి.టి.సి, సి.ఎ.సి, వి.ఎ.సి, వి.ఆర్, ఎన్ఆర్ఐ, సి.టి.సి, సి.ఎ.సి, వి.ఎ.సి, వి.ఆర్.

రెండు తీర్మానాల్లో అందుకున్న గ్రేడులు కలిపి ఉన్నాయి...	ఎ	బి	సి	డి
కృష్ణా	7	11	7	2
గుంటూరు	16	12	12	4

లభించాయి. రెండు తీర్మానాల్లోని 94 ఇంజనీరింగ్ కళాశాలలకు ఎంచుకుంటే గ్రేడులు లభించవచ్చునని గవర్నరాజ్యం, సచివాలయం 12వ రాష్ట్ర ప్రభుత్వం విశ్వవిద్యాలయాల వారిగా ఇన్ఫో, టెలికామ్యూనికేషన్ కళాశాలలకు 'సి', 'టి', 'డి' లాంటి గ్రేడులు ప్రకటించింది.

12మంది 'ఎన్ఆర్ఐ' విద్యార్థులకు ఉపాధి

పోతవరపాడు (ఆగరిపల్లి) : బహుళ జాతి సంస్థ టాటా కన్సల్టెన్సీ సర్వీసెస్ (టీసీఎస్) నిర్వహించిన ప్రాంగణోత్సవం ఇంటర్వ్యూలో పోతవరపాడు ఎన్ఆర్ఐ ఇంజనీరింగ్ కళాశాలకు చెందిన 12 మంది విద్యార్థులు ఎంపికయ్యారు. కళాశాల డైరెక్టర్ ఆర్.వెంకట్రావు, ప్రెసిడెంట్ సి.నాగభాస్కర్ తెలిపారు. గురువారం వారు విలేజ్ లలో మాట్లాడారు. ఈ సెల 18, 19 తేదీల్లో హైదరాబాద్ లో ప్రాంగణోత్సవ ఇంటర్వ్యూలు జరిగాయన్నారు. ఈ సెల 2న బీటెక్, కంప్యూటర్ సైన్స్, ఇంజనీరింగ్, ఎఐ, ట్రైపుల్ టెక్, మెకానికల్, ఎం.టి.ఎల్ విభాగాలకు చెందిన 41 మంది విద్యార్థులు రాత పరీక్షల్లో అర్హత సాధించారని చెప్పారు. అనంతరం హైదరాబాద్ లో నిర్వహించిన టెస్టింగ్, మానవ వనరుల ఇంటర్వ్యూలలో 12 మంది విద్యార్థులు ప్రతిభను చాటి ఉపాధి అవకాశాలు పొందారు. కళాశాల కార్యదర్శి కె.శ్రీధర్ మాట్లాడుతూ నిర్వహించిన ప్రణాళికలో రోజువారీ ఆన్లైన్ పరీక్షలతో ఈ విజయం సాధ్యమైందని చెప్పారు. కళాశాల స్టేషన్ మెంట్ అధికారి శ్రీహర్ష విద్యార్థులను ఆదేశించినట్లు చెప్పారు.

ప్రాంగణ నియామకాల్లో ఎంపిక



ఉపాధి అవకాశాలు పొందిన విద్యార్థుల అభినందన కళాశాల డైరెక్టర్ వెంకట్రావు

రామలింగ్ కార్పొరేషన్ నిర్వహించిన ప్రాంగణ ఎంపికల్లో 10మంది విద్యార్థులు ఉపాధి అవకాశాలు పొందడం కళాశాల డైరెక్టర్ ఆర్.వెంకట్రావు ప్రెసిడెంట్ సి.నాగభాస్కర్ కలిసి తెలిపారు. ఫలితంగా కళాశాలలో నిర్వహించిన ఈ ఎంపికల్లో వెంకట్రావు సీనియర్ టీచింగ్ విభాగాలకు చెందిన 120 మంది విద్యార్థులు పాల్గొనగా అది చరిత్రలో 10మంది ఎంపికైనట్లు పేర్కొన్నారు. ఈ సందర్భంగా ఉపాధి అవకాశాలు పొందిన విద్యార్థులను వారు ఆదేశించినట్లు చెప్పారు. కార్యక్రమంలో ఉపాధికర్తావధికారి ఎస్ శ్రీహర్ష అధికారి లాంఛన విధానం చేశారు.

పోతవరపాడు(ఆగరిపల్లి), న్యూనీటాడే సోతవరపాడు ఎన్ఆర్ఐ ఇంజనీరింగ్ కళాశాలలో ప్రారంభించిన చెందిన ఉపాధి అవకాశాలు పొందిన విద్యార్థులను ఆదేశించినట్లు చెప్పారు.

'టెక్ మహేంద్రా'కు ఎన్ఆర్ఐ విద్యార్థుల ఎంపిక

పోతవరపాడు (ఆగరిపల్లి) : పోతవరపాడు ఎన్ఆర్ఐ ఇంజనీరింగ్ కళాశాలకు చెందిన 24 మంది విద్యార్థులకు టెక్ మహేంద్రాలో ఉపాధి అవకాశాలు లభించినట్లు కళాశాల డైరెక్టర్ ఆర్.వెంకట్రావు గురువారం తెలిపారు. ఈ సందర్భంగా ఆయన మాట్లాడుతూ కామరూప్ టీబీ సిద్ధార్థ ఇంజనీరింగ్ కళాశాలలో ఈ సెల 1, 2 తేదీల్లో టెక్ మహేంద్రా అధ్యక్షులచే నిర్వహించిన ప్రాంగణోత్సవం ఇంటర్వ్యూలలో 230 మంది విద్యార్థులు పాల్గొన్నారు. టెక్ మహేంద్రా కంపెనీ నిర్వహించిన రాత, సాంకేతిక, మానవ వనరుల, మోఖిక పరీక్షల్లో తమ



ఉపాధి అవకాశాలు పొందిన విద్యార్థులతో ఎన్ఆర్ఐ కళాశాల సిబ్బంది

విద్యార్థులు 24 మంది ప్రతిభ చూపినట్లు పేర్కొన్నారు. ఉపాధి అవకాశాలు పొందిన విద్యార్థులను కళాశాల కార్యదర్శి కె.శ్రీధర్, ప్రెసిడెంట్ సి.నాగభాస్కర్, కళాశాల స్టేషన్ మెంట్ అధికారి శ్రీహర్ష తెలిపారు.



ఎంపికైన విద్యార్థులతో డైరెక్టర్ వెంకట్రావు, తదితరులు

ప్రాంగణ ఎంపికల్లో ప్రతిభ

పోతవరపాడు(ఆగరిపల్లి), న్యూనీటాడే స్టాటిక్ ఎన్జనీరింగ్ కళాశాలలో అభ్యుదాత్మికం చెందిన టెక్నోసెర్ సోల్యూషన్స్ ప్రైవేటు లిమిటెడ్ సంస్థ నిర్వహించిన ప్రాంగణ ఎంపికల్లో అమ్మది మంది విద్యార్థులు ఉపాధి అవకాశాలు పొందడం కళాశాల ప్రెసిడెంట్ సి.నాగభాస్కర్ డైరెక్టర్ ఆర్.వెంకట్రావు తెలిపారు. ఐదే గురువారం నిర్వహించిన ఇంటర్వ్యూలలో 10 మంది విద్యార్థులు పాల్గొన్నారు. ఈ సందర్భంగా ఉపాధి అవకాశాలు పొందిన విద్యార్థులను వారు ఆదేశించినట్లు చెప్పారు. కార్యక్రమంలో ఉపాధి కర్తావధికారి ఎం వెంకట్రావు విధానం చేశారు.

NAAC - SELF STUDY REPORT

5.1.10 Does the institution have a student grievance redressal cell? If yes, list (if any) the grievances reported and redressed during the last four years.

- The College has established, as per AICTE norms, a grievance redressal cell for redressing day to day student grievances.
- The grievance expressed either in writing or oral to the members of the committee will be passed onto the Principal/Chairman. General issues related to class room teaching, library, e-sources, canteen, hostel, hostel mess & transportation resolved by the cell with the help of the Office. The composition of Grievance redressal Cell is given in following table

Name	Designation	Department	Status
Mr. CH. Srinivas	HOD	Civil	Co-ordinator
Mrs. R. Sunitha	DEAN	ECE	Member
Mr. M. Babu Prasad	HOD	S&H	Member
Mr. Dr .N. Sambasiva Rao	HOD	EEE	Member
Mr. MD. Rafi	HOD	Mechanical	Member
Mr. Dr. V. Suryanarayana Rao	HOD	CSE	Member
Mr. V. Sudhakara Rao	HOD	IT	Member
Mr. B. Mouleswara Rao	HOD	MCA	Member

All the grievances received are taken seriously and the committee together discusses the importance of the grievance and takes appropriate action accordingly. grievances reported and action taken.

S.No	Grievance Reported	Action taken
1	Malfunctioning of Equipment	Repair of Such Equipment
2	Non-Functioning of Fans and Lights in Class Rooms	Replaced them with New Ones

5.1.11 What are the institutional provisions for resolving issues pertaining to sexual harassment?

The college has a separate Women Grievance Cell that addresses the grievances of girl students and female staff members of both teaching and non-teaching.

The cell comprises one senior woman faculty member as a convener and one woman faculty member from each department as members

NAAC - SELF STUDY REPORT

and some non-teaching women employees. It is mandatory that the Principal has to initiate action on any complaint received from this committee.

The members of the cell are:

S.No	Name	Designation	Department	status
1	R .Sunitha	DEAN	ECE	Convener
2	T. SriLatha	HOD	T&P	Co-ordinator
3	Y. Madhavi	Asst.Prof	BS&H	Member
4	G. Krishna Priya	Asst.Prof	BS&H	Member
5	M.S. Swarna Pushpa	Asst.Prof	BS&H	Member
6	Sudha	Asst.Prof	BS&H	Member
7	Y. Arpitha	Asst.Prof	ECE	Member
8	P.B. Sudha Rani	Asst.Prof	ECE	Member
9	B. Swathi	Asst.Prof	ECE	Member
10	G. Lavanya	Lab Technician	ECE	Member
11	S. Parvathi	Lab Technician	ECE	Member
12	D. Sunitha	Assoc.Prof	CSE	Member
13	M. Aruna	Asst.Prof	CSE	Member
14	M Seshu Bhavani	Asst.Prof	CSE	Member
15	A .Sanjana	Programmer	CSE	Member
16	S. Bhavani	Asst.Prof	EEE	Member
17	M.A. Salma	Asst.Prof	EEE	Member
18	P. Neelima	Lab Technician	EEE	Member
19	M. Praveena	Asst.Prof	IT	Member
20	S .Nahida	Asst.Prof	IT	Member
21	A Sanjana	Programmer	CSE	Member
22	B.B. Zareena	Asst.Prof	CIVIL	Member
23	L. Sri Varsha	Asst.Prof	CIVIL	Member
24	K. Vidhya	Asst.Prof	MECH	Member
25	K. Anusha Raj	Asst.Prof	MECH	Member
26	P. Bharathi	Asst.Prof	MECH	Member
27	K. Udaya Sri	Asst.Prof	MECH	Member
28	N. Srisha	Asst.Prof	MECH	Member
29	V. Kalyani		OFFICE	Member

NAAC - SELF STUDY REPORT

There is a specific procedure for resolving any grievance. The following is the procedure:

- When a complaint is received by the cell, it conducts an inquiry to identify the gravity of the offence and the veracity of the complaint.
- Based on the evidences, the committee submits its report to the Principal for further action. But, so far no such incidents sofar.

5.1.12 Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?

An active Anti ragging Committee constituted, as per the guide lines of AICTE/ APSCHE, Government of Andhra Pradesh. The Chairman of the Committee is the Principal. Awareness regarding consequences of ragging are widely communicated to the senior students through special classes by senior students, conducting awareness meeting with officers of the Police Department. Students are instructed not to indulge in activities of ragging. Every year, a poster campaign in this regard is taken up before commencement of first year classes. Also caution boards are kept at prominent locations of the campus and the same is displayed in the notice board.

Chair Person: Prof. CH. NAGA BHASKAR, Principal

Members:

S.NO	NAME	DESIGNATION	DEARTMENT
1	Dr. K.V. Sambasiva Rao	DEAN	CSE
2	Dr. D. Kailasa Rao	PROFESSOR	BS&H
3	Dr. V. Surya Narayana	HOD	CSE
4	Smt. R. Sunitha	HOD	ECE
5	Dr. N. Sambasiva Rao	HOD	EEE
6	Mr. V. Sudhakara Rao	HOD	IT
7	Mr. D. Jaya Krishna	HOD	CIVIL
8	Mr. MD. Rafi	HOD	MECHANICAL
9	Mr. B. Mouleswara Rao	HOD	MCA
10	Mr. M. Babu Prasad	HOD	BA&H
11	Mr. U. Naresh	Hostel Warden	

STUDENTS REPRESENTATIVES:

S.NO	STUDENT NAME	DEARTMENT	YEAR	ROLL NO
1.	Ms. B. Megamala	ECE	IV	13KN1A0406
2.	Mr. J.A.R. Lakshman Kumar		IV	13KN1A0446
3.	Mr. K.V.S. Abhishek		III	14KN1A0453
4.	Ms. D. Pravallika Sai		III	14KN1A0429

NAAC - SELF STUDY REPORT

5.	Ms. B. Happy		II	15KN1A0417	
6.	Ms. J. Mounika		II	15KN1A0457	
7.	Mr. A. Surya Ram		I	16KN1A0450	
8.	Ms. B.L.L. Prasanna		I	16KN1A0412	
9.	Mr. P. Krishna Vamsi	EEE	IV	13KN1A0228	
10.	Ms. M. Harika		IV	13KN1A0220	
11.	Mr. N. Phani		III	14KN1A0223	
12.	Ms. J. Kreethi Priyanka		III	14KN1A0214	
13.	Mr. S. Sriraj		II	15KN1A0226	
14.	Ms. M. Krishnasri		II	15KN1A0228	
15.	Mr. R.J.s. Kasyap		I	16KN1A0232	
16.	Ms. CH. Srujana		I	16KN1A0208	
17.	Ms. CH. Anusha		CSE	IV	13KN1A0530
18.	Mr. K. Vijayanandh			IV	13KN1A0584
19.	Ms. R. Kavya	III		14KN1A0559	
20.	Ms. Jaya Durga	III		14KN1A05F0	
21.	Mr. A. Sai ram	II		15KN1A0508	
22.	Ms. M.S.V. D. Bhuvanewari	II		15KN1A05B0	
23.	Mr. Nitish Sai	I		16KN1A0523	
24.	Ms. Y. Yasantwini	I		16KN1A0560	
25.	Mr. CH. Ajay Kumar	IT	III	14KN1A1206	
26.	Ms. M. Nikila		III	14KN1A1221	
27.	Ms. A.Ramya		II	15KN1A1203	
28.	Mr. S. Surendra Reddy		II	15KN1A1247	
29.	Mr. P. Sai Tarun		I	16KN1A1235	
30.	Ms. P. Saraswathi		I	16KN1A1238	
31.	Ms. T. Bhagyasree	MCA	III	14KN1F0006	
32.	Mr. G.K. Narendra		III	14KN1F0002	
33.	Ms. CH. Venkata roja		II	15KN1F0002	
34.	Mr. S.Surya Prakash Rao		II	15KN1F0009	
35.	Ms. P.Kreethi		I	16KN1F0001	
36.	Mr. P.Gangadhara rao		I	16KN1F0002	
37.	Mr. K. Raju	MECH	IV	13KN1A0347	
38.	Mr. K.V.Revanth Kumar		III	14KN1A0308	
39.	Mr. D.M.V.S.M. Anatha Vijay		III	14KN1A0329	
40.	Mr. Biram Singh		III	14KN1A0317	
41.	Mr. G.Raghunadha Reddy		II	15KN1A0338	
42.	Mr. G. Siva Sai Kumar		II	15KN1A0341	
43.	Mr. Ch.Uddhav		I	16KN1A0310	
44.	Mr. B.Murali		I	16KN1A0304	

NAAC - SELF STUDY REPORT

45.	Mr. A. Rochishnu	CIVIL	IV	13KN1A0121
46.	Ms. M. Shashanka		IV	13KN1A0101
47.	Mr. A. Phani Arya		III	14KN1A0182
48.	Mr. K. Satish Babu		III	14KN1A0143
49.	Mr. B. Pavan Karthik		II	15KN1A0181
50.	Ms. C. Alekhya		II	15KN1A0102
51.	Mr. D. Govardhan		I	16KN1A0101
52.	Ms. KDVLLKSN Indu Priya		I	16KN1A0101
PARENTS: Sri Mr. P. Zameer Khan, Daughter of Miss. P.Afroz – IV- ECE , Roll no:13KN1A04B0				
LAW and ORDER: SI, Agiripalli.				
ADMINISTRATIVE OFFICER: Mr. N. Madhava Rao – Convener				

Anti Ragging Squads of the Institution:

Anti-Ragging Squads have been formed in the Institution. Each Floor In-charge is made a member of the anti-ragging squad.

The anti-ragging squad members and the committee members usually give counseling to both junior and senior students and to educate senior students about constitutional provisions for punishing the offenders. The students are informed orally and also supplied the material along with the Hand Book about the anti ragging actions that would be taken as per the latest UGC guidelines. Senior students and their parents submit a joint affidavit stating their knowledge about the provisions of the anti ragging act. This committee keeps continuous vigilance in all common areas, hostels, college buses etc. beyond college hours, to prevent the ragging incidents.

5.1.13 Enumerate the welfare schemes made available to students by the institution.

- Health service- First Aid Kit is available with the Office. The College has understanding with Multi Specialty Hospitals, viz., AAYUSH, Royal Hospitals Vijayawada who attend to the needs of both staff and students.
- A separate e- Service Office is created at the entrance of the College gate. Main function of this Office is to help students to apply for PAN Card, Passport, Aadhar Card, GRE, TOFEL, VISA Applications etc.
- A separate cell to facilitate the processing of applications and remittances of government scholarships.
- Stationary and reprography facilities are available within the campus.
- ATM facility
- Library is open during and after the college hours (9.00 A.M to 8 P.M)

NAAC - SELF STUDY REPORT

- Internet facility, Wi-Fi Connection in the campus and hostel
- Internet lab beyond working hours.

5.1.14 Does the institution have a registered Alumni Association? If ‘yes’, what are its activities and major contributions for institutional, academic and infrastructure development?

YES. The college has a registered Alumni Association. Alumni association was started in the year 2015. Its motive is to bring all the alumni to one platform ,so that they can share their experiences, extend their helping hand and provide guidance to the budding engineers of the college. All the passed out students of the college are members of the Alumni Association by default. At present the alumni has 145 active members.

The Alumni is spread around the globe and supports the college in various activities. Alumni meet is held at College once in a year.

Alumni contribute to the development of the college in the following ways:

- Feedback on all matters related to the college.
- Alumni members residing in various parts of India and abroad share their experiences with staff and students whenever they visit the institution.
- Alumni support placement activities of the students.
- A alumni extends their support by sponsoring various activities, including financial help to poor and deserving students in the college.

5.2 Student Progression

5.2.1 providing the percentage of students progressing to higher education or employment (for the last four batches) highlight the trends observed.

Branch	Batch	2012-13	2013-14	2014-15	2015-16
Civil	UG to PG	Nil	Nil	50	Nil
	PG to Ph.D.	Nil	Nil	1	Nil
	1. Employed Through Campus Placement 2. Other	Nil	Nil	25(CS) 65(O)	Nil

NAAC - SELF STUDY REPORT

	Than Campus recruitment				
	Total				
MECH	UG to PG	Nil	Nil	4	3
	PG to Ph.D	Nil	Nil	Nil	Nil
	3. Employed Through Campus Placement				
	4. Other Than Campus recruitment	Nil	Nil	6(CS)	38(CS)
	Total				
EEE	UG to PG	4	10	6	11
	PG to Ph.D.	Nil	Nil	Nil	Nil
	5. Employed Through Campus Placement				
	6. Other Than Campus recruitment	67(CS) 16(O)	60(CS) 6(O)	65(CS) 15(O)	78(CS) 9(O)
	Total				
ECE	UG to PG	2	3	5	5
	PG to Ph.D.	Nil	Nil	Nil	Nil
	1. Employed Through Campus Placement				
	2. Other Than Campus recruitment	34	72	90	87
	Total				
	UG to PG	2	3	4	3

NAAC - SELF STUDY REPORT

CSE	PG to Ph.D.	Nil	Nil	Nil	Nil
	1. Employed Through Campus Placement 2. Other Than Campus recruitment	4(O)	56(CS)	48(CS)	54(CS)
	Total				
IT	UG to PG	Nil	Nil	Nil	Nil
	PG to Ph.D.	Nil	Nil	Nil	Nil
	1. Employed Through Campus Placement 2. Other Than Campus recruitment	75	Nil	81	37
	Total				
MCA	UG to PG	Nil	Nil	Nil	Nil
	PG to Ph.D.	Nil	Nil	Nil	Nil
	1. Employed Through Campus Placement 2. Other Than Campus recruitment	Nil	20(CS)	24(CS) 3(OCS)	17(CS) 2(OCS)
	Total				

5.2.2 Provide details of the programme wise pass percentage and completion rate for the last four years (cohort wise/batch wise as stipulated by the university)? Furnish programme-wise details in comparison with that of the previous performance of the same institution and that of the Colleges of the affiliating university within the city/district.

Department	2012-2013	2013-2014	2014-2015	2015-2016
CIVIL	81.03%	66.12%	78.78%	72.18%
EEE	92.18%	88.57%	76.11%	75.0%
ECE	82.81%	81.15%	74.64%	87.32%

NAAC - SELF STUDY REPORT

CSE	83.33%	83.19%	73.18%	82.93%
IT	-----	76.36%	76.52%	60.0%
MECH	-----	-----	74.65%	72.80%
MCA	90.56%	-----	68.62%	62.50%

5.2.3 How does the institution facilitate student progression to higher level of education and/or towards employment?

- Outgoing students are encouraged to appear for the PG CET conducted by Government of AP.
- The College offers PG courses in all Engineering branches of the college.
- Continuous Placement training is imparted to all students.
- Pre-Placement Training classes are conducted to III and IV year students
- Online Assessment Tests are conducted for IV & III B.Tech students.
- Mock Tests are conducted basing on the placement company recruitment process.

5.2.4 Enumerate the special support provided to students who are at risk of failure and drop out?

- The Class Teacher identifies such students and arrange extra classes in that subject .
- Frequent conselling is conducted and they are specially covered
- Parents are being informed regarding the progress of the student frequently
- Personal counseling to student and parents is given to encourage them to continue studies. If required financial help in the form of fee reduction / waiver is given to them.
- The college also arranges doubt clarifying classes and peer teaching classes for the weak students.
- Counselling, promptly attending to the students emotional and health needs, continuous attendance shortage monitoring and communication of the same to parents/guardian to ensure that the students enrolled complete their courses successfully.

5.3 Student Participation and Activities

5.3.1 List the range of sports, games, cultural and other extracurricular activities available to students. Provide details of participation and program calendar.

NAAC - SELF STUDY REPORT

- Separate Physical Education Department is established. A full time Physical Education Qualified Teacher is appointed to train students in various sports and games.
- Physical Education teacher gives training in athletics as well as specialized sports and games and encourage them to participate in inter-collegiate and inter-university sports.
- Conduct activities that promote physical & mental fitness of students.
- Global sport events are celebrated in the college.

Sports & Games Facilities:

Games and Sports activities are looked after by the Department of Physical Education. That has sufficient infrastructure, facilities. The college has well developed playgrounds for various games and sports.

Activities:

Selection trials for both boys and girl students for picking up talented players for participation at Inter collegiate tournaments is an yearly feature of the college. Special training sessions are conducted to make them ready for participating in games and sports competitions.

Outdoor Games: Volleyball, Basketball, Tennis, Throw ball, Tennicoit, Kho-Kho courts are there in the college.

Literary and Cultural activities:

Literary and Cultural activities pertaining to Annual day and participation in other competitions are under the supervision of one teacher Dr. D. Kailasa Rao who has the experience in these activities for more than 35 years and who himself is a stage actor. Annual Literary and cultural activities are being organized during the period of November/December and March to April.

Participation of students at Intercollegiate Competitions

S.No	Department	Name of the Student	Award/Recognition	Event	Year
1.	CSE	N.Dinesh	Appreciation certificate	South Indian football at university of Kerala	2011-12
2.		D.Tejaswini	Participation Certificate	Handball tournament at Periyar, Salem,	2014-15

NAAC - SELF STUDY REPORT

3.		T.Ramya	Participation Certificate	Handball tournament at Periyar, Salem,	2014-15
4.		CH.Grashma Tinusha	Participation Certificate	Handball tournament at Periyar, Salem,	2014-15
5.		A. Lakshmi Kanth	Participation Certificate	Handball tournament at Periyar, Salem,	2014-15
6.	IT	Kasu Pratap Reddy	Participation	South Zone Inter University Handball Tournament	2013-2014
7.	MCA	B.Siva	Participation Certificate	air pistol tournament at inter university college competitions held at Duni	2014
8.	ECE	M.Kiran Mounika	Swimming	University of Calcutta, Kolkatta	2010-11
9.		P.Bhargavi	Swimming	University of Calcutta, Kolkatta	2011-12
10.	ECE	M.Kiran Mounika	Swimming	University of Calcutta, Kolkatta	2011-12
11.		K.Radha Krishna	Basket Ball	Gudlavalleru Engineering College	2012-13
12.		G.Hruday Bhanu Reddy	Handball	Bharathidasan University, Tiruchirapalli.	2013-14

NAAC - SELF STUDY REPORT

13.	B.Lakshmi Kanth	Volley Ball	Gudlavalleru Engineering College	2014-15
14.	M.S.P.V.Niranjan	Archery	Punjab University, Patiyala	2015-16

NSS Activities:

The College has a separate NSS wing. Mr. V.M. Monoj of Department of Mechanical Engineering is the Programme Officer. Students are encouraged to join in NSS to serve the nation and society. Seven day special camps are conducted in nearby villages. Students in large number actively participate under the guidance of programme officer. Awareness regarding cleanliness, importance of education, health care and self help is given to villagers during the camp.

List of programmes conducted:

S.No	Duration of camp (days)	Name of the program	Number of participants
1	2	Blood Donation Camps	30
2	1	Campus Cleanliness Drive	25
3	2	Cloth Collection Drives	20
4		Adopted a School	
5	2	Fire-Fighting Camp	23
6	1	Plantation Drive	50
7	2	Medical Camp	30
8	2	Solar Light Workshop	30

5.3.2 Furnish the details of major student achievements in co-curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc. for the previous four years.

Students are encouraged to participate in various co-curricular, extracurricular and cultural activities that are conducted by the College as well as by other institutions within the state and outside the state. Our students have won many distinctions when participated in other institutions.

Co-curricular Activities

A List of events where our college students participated and won Prizes and cash prizes in other college fests and activities in technical events like paper presentation/technical quiz/poster presentation/

NAAC - SELF STUDY REPORT

coding is presented below:

Year	Department	Name of the event	No of students participated	No of students won prizes
2014	C S E	Android Applications.	1	Secured 2 nd Prize
	C S E	QUIZ competition.	3	Secured 1 st Prize
	C S E	Paper presentation	4	Secured 1 st Prize, Secured 2 nd Prize
	C S E	Ad-Making	1	Secure 3 rd Prize
	C S E	Poster Presentation	1	Secured 1 st Prize
2015	C S E	Cruise Competition	2	Secured 3 rd Prize, Secured 1 st Prize
	C S E	web wizard competition	1	Secured 1 st Prize
	C S E	technical quiz	1	Secured 2 nd Prize
	C S E	Paper presentation	1	Secured 2 nd Prize
	C S E	Skill Adda Coding	1	Secured 1 st Prize
	C S E	Cracked Spot-Software Contest	1	Secured 1 st Prize
	C S E	Technical Quiz	1	Secured 1 st Prize
	C S E	Web-Wizards(Web Programming).	1	Secured 1 st Prize
	C S E	C- Programming Contest event	1	Secured 1 st Prize
	C S E	Cracked Technical quiz	1	Secured 2 nd Prize
	C S E	C- Programming Contest in National level Student Technical	1	Secured 1 st Prize

NAAC - SELF STUDY REPORT

		Symposium		
2016	C S E	Paper Presentation	1	Secured 2 nd Prize
	C S E	Website-Design	1	Secured 1 st Prize
	C S E	Developing specified website modules	1	Secured 1 st Prize
	C S E	Paper presentation	1	Secured 1 st Prize
	C S E	Cracked programming contest	1	Secured 1 st Prize
	C S E	spot software contest	3	Secured 1 st Prize, Secured 2 nd Prize, Secured 3 rd Prize
	C S E	Paper presentation	2	Secured 1 st Prize, Secured 2 nd Prize
2016	I T	Management using IOT	2	Secured 1 st Prize
	I T	Technical Quiz	3	Secured 1 st Prize
	I T	Power Point Presentation	1	Secured 1 st Prize
2014	E C E	Project Expo	1	Secured 1 st Prize
	E C E	Power Point Presentation	1	Secured 2 nd Prize
	E C E	Circuit Designing and Debugging	1	Secured 2 nd Prize
	E C E	Circuit Mania	2	Secured 1 st Prize, Secured 2 nd Prize
2015	E C E	Robo Race	1	Secured 1 st Prize
	E C E	ROBO-ZEST 2015	1	Secured 1 st Prize
2016	E C E	Project Expo	2	Secured 1 st Prize, Secured 1 st Prize

NAAC - SELF STUDY REPORT

	E C E	Adventure Robot Competitions	8	ALL Secured 1 st Prize.
	E C E	Circuitrix	1	Secured 2 nd Prize
	E C E	Tech Trix	1	Secured 2 nd Prize
	E C E	Robo War	1	Secured 1 st Prize
	E C E	Project Expo	1	Secured 1 st Prize
	E C E	Mobile Control Robotics	1	Secured 1 st Prize
	E C E	Mouse Trap Racer	1	Secured 2 nd Prize
	E C E	Yantrora	1	Secured 1 st Prize
2015	MECH	Fastest Auto Cad	1	Secured 2 nd Prize
	MECH	Black & White	1	Secured 3 rd Prize
2016	MECH	Srujana'16	1	Secured 1 st Prize
		Lakshya-2K16	1	Secured 1 st Prize
2014	EEE	Project Expo	1	Secured 1 st Prize
	EEE	Robotics	1	Secured 1 st Prize
	EEE	Robo Soccer	1	Secured 1 st Prize
	EEE	Robo Duels	1	Secured 1 st Prize
	EEE	Project Expo	1	Secured 1 st Prize
	EEE	Poster Presentation	1	Secured 2 nd Prize
	EEE	Paper Presentation	1	Secured 2 nd Prize
	EEE	Robo Terrian Trackers	1	Secured 2 nd Prize
	EEE	Tech Trix	1	Secured 2 nd Prize
2015	EEE	Project Expo	1	Secured 1 st Prize
	EEE	Robo Soccer	1	Secured 2 nd Prize

5.3.3 How does the college seek and use data and feedback from its graduates and employers, to improve the performance and quality of the institutional provisions?

- The feedback regarding the teaching and communication of faculty, departmental issues, issues relating to college administration, transport, facilities like e-office, canteen and library are collected through a feedback form at the end of every semester.
- The feedback comprises of 12 different aspects to be marked on a scale of 1 to 5 (with 5 being the best). At the first level, if the feedback is about the faculty, departmental issues, then it is solved at the level of the HoDs.
- Each individual teacher is being supplied with the average values of each of the feedback questions. The teacher is required to correct his attitude basing on the feedback that he gets.
- The feedback regarding departmental issues, issues relating to college administration, transport, e-office, canteen and library are forwarded to Principal and then management for redressal. If the issues are general in nature, it will be handled by the Principal, if needed the management's support is taken for redressal.
- The principal, management and HOD's go through the feedback for corrective actions.
- The Exit feedback is collected from all the outgoing students /staff every year seeking their opinion on the instructions and delivery, infrastructural facilities, library facilities, computing facilities, games & sports facilities, training facilities, support to placement activity, etc.
- The feedback of the students is compiled and all the suggestions made by the students are taken into consideration and an anticipative report is presented to the Management for effective improvements in subsequent years. Feedback regarding student performance is collected whenever the campus recruitment drives are conducted to take stock of the level of student's readiness for employment. Basing on the feedback corrective measures are taken up every year to make to students employable for the present day requirements.

5.3.4 How does the college involve and encourage students to publish materials like catalogues, wall magazines, college magazine, and other material? List the publications/ materials brought out by the students during the previous four academic sessions.

Students are encouraged to form into a club and required motivation and conceptual help for preparing technical papers at National level paper presentation contests is given by a teacher who is given this assignment in addition to his/her regular duties. Departments

encourage the students to prepare and display the working models during the project expo. College conducts technical paper presentation contests, for the students and encourages all the students to participate in conferences & technical fest (Techno Vision, Project Expo, Hi-tech Fest) to present their research & innovative thinking. The students are involved in various committees formed for organizing conferences, workshops, guest lectures at institution and departmental level. The College encourages its students to publish materials like college magazine; Newsletters etc. The students are motivated to express their talent in the form of articles, paintings. The college magazine provides a platform to bring out their hidden talents.

5.3.5 Does the college have a Student Council or any similar body? Give details on its selection, constitution, activities and funding.

Each branch has a Departmental Association. The executive committees of these associations comprise President from final year, Vice-President from pre-final year, Secretary from first or second year and Treasurer from third year. The associations conduct the activities under the guidance of the faculty representatives. The College makes budgetary allocations for student activities. The following are the activities generally undertaken by the departmental associations.

- Expert Lectures, Technical Talks, General & Technical Quiz ,Aptitude Tests ,Workshops and Group Discussions.

The student council is constituted by nominating two students one girl and one boy from each department and the meetings are held under the guidance of the faculty advisor and HOD's. The student council actively participates in planning and conducting the annual techno-cultural festival to showcase the culture of all the parts of the country in a grand way every year. The college funds entirely for all the activities every year.

5.3.6 Give details of various academic and administrative bodies that have student representatives on them.

Different academic and administrative activities are conducted with students nominated as members of various committees including:

Class Committee

- Placement Co-ordination committee
- Co-curricular activities committee
- Departmental Association
- NSS
- DWR

NAAC - SELF STUDY REPORT

- ISTE Student Chapter
- CSI Student Chapter
- IETE Student Chapter

A part from the above the college is having various clubs like technical, Cultural, sports, dance, music, yoga, martial arts, painting, culinary, language, social welfare and green clubs in which formed and managed by students with a Teacher as co-ordinator.

Some of the Committees which are managed by students are:

Class Monitoring Committee: Each class has a class representative (CR) and Girls representative (GR). HOD of each department interacts with class representative and girl's representative and enquires about academic issues from time to time.

Student Organizing Committee: Constituted at department level to organize various technical events during inter collegiate fests, seminars and conferences.

Administrating Bodies:

Following are the committees formed by the College where students are nominated as members:

Anti Ragging Committee:

Minimum 7 students from all branches

Teacher In-charge: Dr.CH. Naga Bhaskar

Women Empowerment and Grievance Cell:

Minimum 7 students from all branches

Teacher In-charge: Mrs. R. Sunitha

Student Affairs Committee: Dr. D. Kailasa Rao

Minimum 7 students from all branches

Teacher In-charge:

Career Development Committee:

Minimum 7 students from all branches

Teacher In-charge: Mr. S. Sri Harsha, Mrs. T. SriLatha

Canteen Committee:

Minimum 7 students from all branches

In-Charge: Mr. K. Gopal

Hostel Committee:

Minimum 7 students from all branches

In-Charge: Mr. U. Naresh

5.3.7 How does the institution network and collaborate with the Alumni and former faculty of the Institution. Any other relevant information regarding Student Support and Progression which the college would like to include Network with the Alumni.

College invites all the former students for alumni meetings which is conducted once in a year. The College Management takes their

NAAC - SELF STUDY REPORT

advises, opinion and support for the development of the institution. All the departments are advised to seek the opinion / suggestions of alumni on various aspects from the senior faculty who left or retired from the college on all developmental activities by sending mails to them and requesting them to fill the proforma supplied in this regard. A separate page is designed in the college website for better interaction between the college and alumni.

**CRITERION VI:
GOVERNANCE, LEADERSHIP AND MANAGEMENT**

6.1 Institutional Vision and Leadership

6.1.1 State the vision and mission of the Institution and enumerate on how the mission statement defines the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, institution's traditions and value orientations, vision for the future, etc.?

VISION

To evolve as the most preferred educational group with Global recognition as Centre of innovation and excellence, aiming to achieve transformation in education. Inducing profound knowledge in serene environment by synchronizing education with professional ethics and values.

MISSION

To keep in assiduous efforts and transcend our Vision into reality, we are committed with an insight of shaping technocrats into prospective professionals at the cutting edge of industries with competitive advantage.

The Vision and Mission statements communicate explicitly of the immediate emphasis on the development of the cognitive and affective domains to the entrant of the college. The fulfillment of the Vision and Mission are obvious in the objective of the institution.

QUALITY POLICY

Top management is committed to Students / Parent requirements and expectations, efforts were made to meet them.

6.1.2 What is the role of top management, Principal and Faculty in design and implementation of its quality policy and plans?

The institution, NRIIT is governed by the Sri Durga Malleswari Educational Society consisting of eminent members, Dr. R. Venkat Rao, Chairman of NRI Group of Colleges, Sri K. Sreedhar, Secretary, NRI Group of Colleges, Dr. V. Srinivasulu, HOD of Civil Department, JNTUK, Prof. P. Trimurthy, Retd. Prof. of ANU, Prof. K. Saraswathi, Retd. Prof. of SVU, Prof. D. Peramma, Retd, Prof. of SVU, Sri D. Rama Krishna, MD., Efftronics Ltd., Dr. P. Narasimha Rao, Prof. in Economics and Dr. C. Naga Bhaskar, Principal, NRI Inst. of Tech. The college is guided by well defined Quality Policy. The Management, the Principal and the staff/faculty work in tandem in proper implementation of the quality policy and plans. The Principal as the Head of the Institution provides a dynamic and requisite leadership to the system. The Chairman regularly interacts with Principal and Faculty to discuss various policy matters and their effective implementation. The Governing Body members meet at 2-3 times per year and discuss key aspects in detail and arrive at the necessary strategies and plans for developing the institution and improving the quality of education in the campus.

The Management, Director and Principal are always available to the faculty who want to present their views and ideas. The opinions of faculty and staff will be considered positively for evolving policies. The Principal provides academic leadership and in association with the various faculty, evolves strategies for academic growth. The faculty is actively involved in the decision-making process to sustain and enhance quality of education imparted by the institution. The top management takes utmost care in providing excellent infrastructure facilities and conducive learning environment to students. The leadership in NRIIT is such that it motivates all its employees to contribute their best by providing a harmonious work culture.

6.1.3 What is the involvement of the leadership in ensuring :

- **The policy statements and action plans for fulfillment of the stated mission**

The management takes responsibility in providing the facilities for learning and growth of the college. Prior planning is made by every

NAAC - SELF STUDY REPORT

department well before the commencement of the academic year and after critical study, the budget is allocated under various heads for improving infrastructure and development of the institute.

As many of the students are from the rural background there is a need to stress on improving their communication skills and make them job / placement ready by the time they leave the college. Keeping this in mind the English department is strengthened, which in turn reflects the mission statement.

The mission is also to produce highly competent engineers with excellent technical and behavioral skills. The students are trained in these aspects through regular curriculum, co-curricular activities like guest lectures, seminars and training in various other aspects. The Management proactively supports all these activities. Thus the leadership helps in moulding the students into worthy citizens of the society.

• Formulation of action plans for all operations and incorporation of the same into the institutional strategic plan

Based on the policy statements, the management advises the staff to accomplish the strategic plans through various activities. The success of different activities is ensured through strict adherence to the action plans such as

- Academic calendar for the college which details the curricular activities
- Calendar of events for co-curricular and extra-curricular activities by individual departments
- Budgetary sanctions
- Lesson and course plans

• Interaction with stakeholders

Keeping in mind the stakeholders whom the college has to serve such as students, faculty, parents, industry, government and society, the leadership focuses on how to interact with various stakeholders. The inputs and feed back about the functioning and various other aspects of the college is collected through a number of ways.

NAAC - SELF STUDY REPORT

- Interacting and getting the opinion of the regular students through various platforms
- like Class Review Committee(CRC), Grievance Redressal Committee, formal & informal feedback, counseling, etc..
- Organizing parents meeting during the admission process, interacting with them during counseling and obtaining the views and suggestions of parents.
- Recording the opinions of the academicians and other eminent people when they visit the college
- Interaction with faculty members through various formal and informal meetings and also obtaining feedback from them.
- Alumni are best source to obtain un-biased feedback basing on their experience within the college and the external world.
- The feedback of the recruiters from various companies helps the college to identify any improvisations required in the talents of the students.
- The college also tries to get feedback from the employers through the placement cell about the performance of our students working in their organization.

The feedback received from all stakeholders is critically reviewed, analyzed and remedial actions will be initiated. The management encourages the participation of the staff in the process of decision-making in institutional functioning. The personal interaction of the Principal with various stakeholders, the faculty, the non teaching staff, the students and the guardians also plays an important role in this. Thus, participatory role of the management encourages and sustains the involvement of the college staff, which is necessary for the efficient and effective running of the College.

• Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders

The inputs collected from various stakeholders will be taken into cognizance by the management and through various interactive methods with the staff helps them in identification of critical areas for development and reviews progress in continuous improvement.

- **Reinforcing the culture of excellence**

NRIIT always benchmarks itself with best institutes in the country and tries to implement the best practices. It channelizes the procedures and practices in tune with such practices to create an ambience that is most conducive for academic excellence.

- **Champion organizational change**

NRIIT follows a structured approach for ensuring that changes are smoothly and successfully implemented, and that the lasting benefits of change are achieved. In order to accomplish this, NRIIT aligns stakeholder's expectations, communicates, and integrates with employees efforts for the growth of the institution. It makes use of performance metrics in terms of pass percentage, placement percentage, presentation in conferences, journal publications, accepted proposals, consultancy work etc to design appropriate strategies. These are communicated to the employees so that they execute and accomplish the requirements as per the strategies set.

6.1.4 What are the procedures adopted by the institution to monitor and evaluate policies and plans of the institution for effective implementation and improvement from time to time?

The HoDs meeting which is held every week discusses not only regular aspects but also how the various plans and policies are being implemented through different activities. College is totally committed to the aspects of continuous improvement and evolves modified strategies for the betterment of quality. The policy decisions taken by the appropriate authorities will be closely monitored by the respective committees for the implementation of decisions, noticing the challenges during implementation and suggesting suitable alternative actions.

Close and regular monitoring of critical activities ensures effectiveness of the plans that are to be implemented. For example the intake analysis which is done to analyze the trends and variation in the intake helps in identifying the areas to improve the intake ranks. Similarly the result analysis ensures in identifying different issues related to the performance of the students of the college not only in comparison with previous years but also with the other affiliated colleges of the University. The class work review committee meeting help different departments in framing strategies for full coverage of

the syllabus at a uniform pace. The attendance monitoring and analysis helps in identifying the under-motivated students, counsel them, so that they will be in the regular stream and thus improve the overall performance of the college. The Departmental Advisory Committee helps in identifying the areas in need of improvement and helps in planning accordingly.

6.1.5 Give details of the academic leadership provided to the faculty by the top management?

NRIIT management protects the freedom of individual faculty members, appreciates their innovations and thereby ensures greater motivation. The top management encourages the members of faculty to present their suggestion and views for the development of the institution. The Management and Principal ensure harmonious climate of human relations between students, faculty members, and departmental heads to enhance higher efficiency. The top management ensures great emphasis on Motivation for research and professional progression with a degree of liberty and also other acts of academics like:

- Pooling their academic resources, best expertise and experiences
- Giving autonomy to participate in R & D activities
- Freedom of action and decisions
- Freedom of research and publication
- Freedom of thought and expression

6.1.6 How does the college groom leadership at various levels?

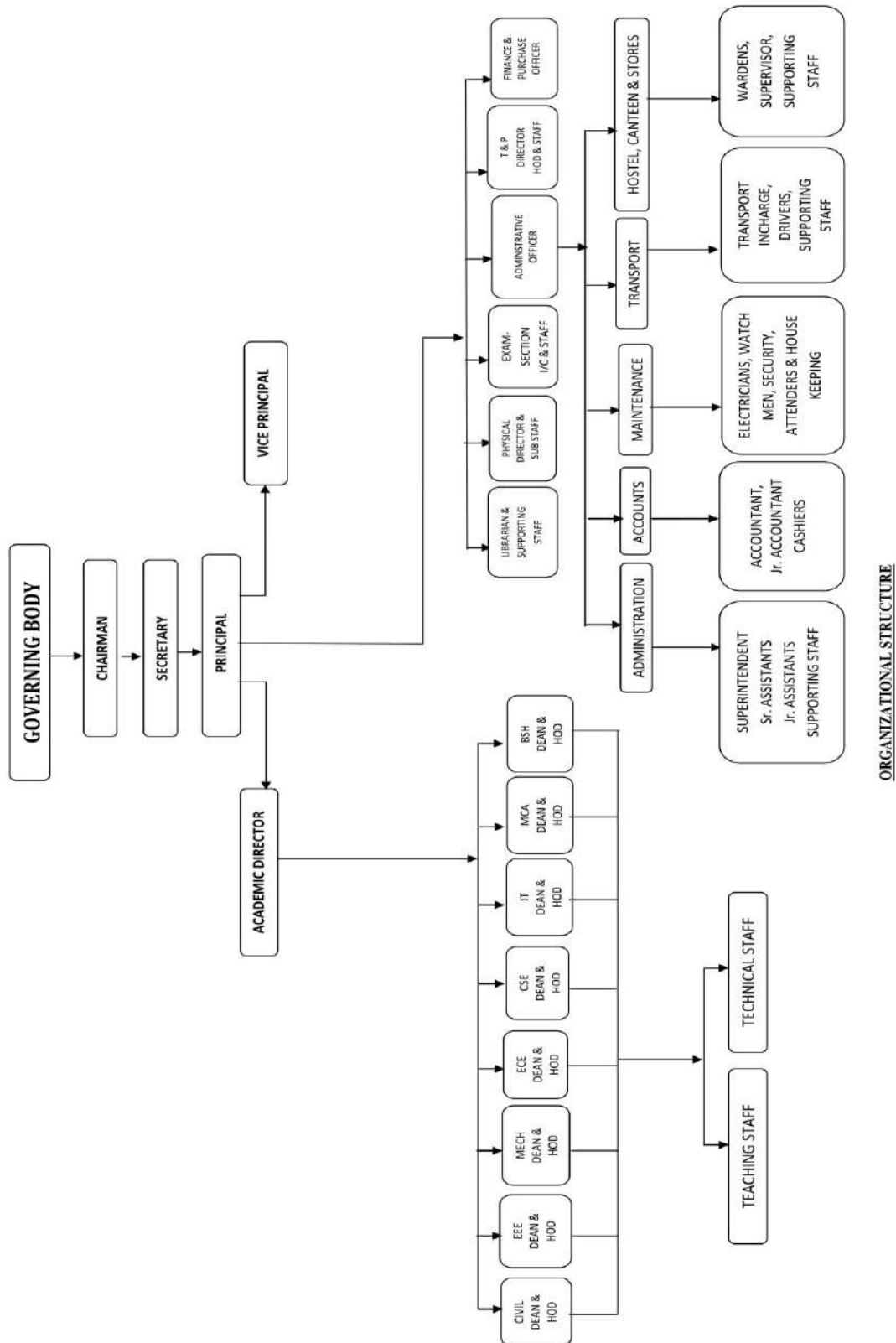
The Principal is the academic as well as the administrative head of the institution. He acts independently by blending the rules and regulations as well as the norms laid down by the AICTE and JNTUK, Kakinada with the policies and strategies of the college. The college believes in decentralization of administration and transparency of governance. Independence is given to all Heads of the Departments in planning, organizing and implementing various activities in the departments in a effective way. The HoDs in turn will delegate the authority and support the faculty in taking up various departmental

activities. Various committees/cells were constituted and the committee chair person / coordinator works independently to ensure the objectives of the committee are met with. The college ensures that leadership is groomed at various levels through committees which create an ambience of trust and enhance competence and foster a sense of belongingness to the institution among the faculty and students.

6.1.7 How does the college delegate authority and provide operational autonomy to the departments / units of the institution and work towards decentralized governance system?

The college ensures decentralization and thus delegates authority at different levels ensuring good governance. Empowering heads of the departments to distribute work load to faculty, identifying the add-on courses to deliver, identifying the content beyond syllabus and to organize various faculty and student development programmes. Allocation of budget is based on the proposals received from the department and once it is approved for a financial year and various operations can be performed by the Head of the department, as envisaged in the approved budget.

NRIIT Organisational Structure as follows :



6.1.8 Does the college promote a culture of participative management? If 'yes', indicate the levels of participative management.

Yes, the college does promote a culture of participative management. It has inculcated the practice of hearing the voices of all concerned. Every week the HoDs meeting with Principal will be held and the views of all HoDs will be taken into cognizance before a decision is taken. Similarly department faculty meetings are being held at regular intervals where internal issues within the department are discussed and the deliberations of HoDs meeting are discussed. The concerns of faculty if any, will be again brought to the notice of the Principal in the next HoDs meeting. The suggestions and concerns of staff are well appreciated and received by the heads of the department and in turn the suggestions of heads of the departments are received well by the top management. Leadership in NRIIT always recognizes the significance of listening and interpreting the views of all the employees and practices this culture meticulously.

6.2 Strategy Development and Deployment

6.2.1 Does the Institution have a formally stated quality policy? How is it developed, driven, deployed and reviewed?

The quality policy of the institute states “NRIIT is engaged in imparting quality technical education. It constantly strives towards achieving high standards of teaching, training & development of human resources by encouraging its faculty, staff to work as a team and to update their knowledge and skills continually to match the needs of industry.” The institute strongly believes that to reach the position as stated in Vision and Mission statements, the human resource is the prime factor amongst the other resources. In the present scenario of liberalization and highly competitive world, to become a world class institute one has to bestow the end-user with the best possible service. It is much more valid in case of an educational institute which strives to impart quality education. To achieve this, the teaching fraternity has to set high goals and work as a team. Quality is not an end goal but the means and processes to achieve it are critical which are to be continuously nourished. Basing on this idea the quality policy was developed. All the activities are

NAAC - SELF STUDY REPORT

driven by the quality policy and are closely monitored. The various performance indicators like pass percentage, input ranks, placements, achievements in co-curricular activities of students and the achievements of the faculty will be critically analyzed each semester / year and reviewed.

6.2.2 Does the Institute have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.

Yes, the institute has a perspective plan for development. The following are the salient features of the developmental plan of the Institute.

- To make the Institute as a “Center for Excellence” , which is our vision.
- To make each department self-sustained by furnishing latest equipment and engaging highly qualified faculty
- To train the students to make them ready for facing competition at national and international levels
- To mould the all-round personality of the students and make them leaders in their respective fields
- To enhance the number of Post-Graduate Courses encompassing in all branches of Engineering and multi-disciplinary areas
- To Develop as a “Research Centre” for Engineering Courses
- To offer Consultancy Services in various fields of specializations
- To obtain NBA accreditation for all the programs being offered
- To enter into collaboration with Institutes of National and International repute for twinning programs
- Securing recognition by UGC under 12(b) of the UGC act
- To secure accreditation by NAAC with good grading

6.2.3 Describe the internal organizational structure and decision making processes.

The internal organization structure is given in 6.1.7.

- The Principal is the head of the institution looks into both academic and administrative matters and acts as a bridge between the Management, Faculty, Staff and Students. Academic Director and

NAAC - SELF STUDY REPORT

Administrative Officer work with the Principal in executing general administrative works.

- HoD is responsible for the functioning of the Department as per the laid down policies of the college and will be reporting to the Principal. HoD will prepare budget estimation for the Department for its operation, maintenance and development. HoD will constitute various committees at the department level for smooth implementation of various activities.
- Coordinators of all committees at the college level will report to the Principal.
- Director - Training and placement cell who looks into all activities related to campus recruitment and training of students will be reporting to the Principal.

6.2.4 Give a broad description of the quality improvement strategies of the institution for each of the following

- Teaching & Learning

- Provision of e-learning resources in Central Library
- Ergonomically designed classrooms with networking facility
- Provision of e-classrooms
- Development of student support :
students and offer support
- Organization of Remedial classes and makeover classes
- Delivery -on-courses with external agencies like Infosys, Oracle, AutoCAD, Matlab, etc.,
- Conduct of pre-placement training classes and campus connect programmes
- Structured course files and lab manuals on all courses.
- Academ
- Studen -back on teachers and going through the necessary follow-up action.
- Conducting Faculty Development Programmes before commencement of each academic year.
- Continuously strengthening and upc
and the library resources.

• **Research & Development**

- Constituting research groups of faculty to cover the main areas of interest for each branch.
- Allocation of budget for in house R & D
- Incentives and rewards for publicat students.
- Financial assistance to students for model making.

• **Community Engagement**

- NSS activities
- Blood Donation Camps
- Free medical camps.
- Environment friendly activities

• **Human Resource Management**

- Transparent policies
- Transparent and scientific way of selections
- Imparting rel.
- Formulation and communication of policies of the college
- Support for academic advancement
- Systematic performance appraisal system and guidance to the people concerned
- Systematic pror
- Democratic way of administration with participative management

• **Industry Interaction**

- Having MoUs with Infosys, Oracle, Moocs & APSSDC for Industry-Institute- interaction for campus recruitment, consultancy and student training.
- Rapport with industry for industrial training and to ensure the students do live projects in the industry.
- Getting inputs from the industry t
Advisory committees for strategic planning

6.2.5 How does the Head of the institution ensure that adequate information (from feedback and personal contacts etc.) is available for the top management and the stakeholders, to review the activities of the institution?

The Head of the institution interacts with management very frequently. The head of institution appraises the management about the information received from feedback from parents, alumni, industry, teachers, students and the public with regards to the teaching quality, curriculum, extracurricular activities and infrastructural demands. In the meetings with Governing Body Members the information gathered from different sources are discussed with the participating members. After thorough discussion and deliberations the existing facilities and activities of the institution are reviewed and decisions are taken for their implementation after going through the available resources and modalities. The decisions taken and activities of the institute will be communicated to stakeholders within college through circulars and external stakeholders through college website and news letter published.

6.2.6 How does the management encourage and support involvement of the staff in improving the effectiveness and efficiency of the institutional processes?

Management encourages dynamism and expects proactive initiative of members. A quality suggestion of any member will be given due consideration in decision making. A systematic and participative management is the feature of the institution that leads to the determination of right direction. After making decision, concerned committees will implement it in true spirit with the guidance and cooperation of all the members. Thus promoting belongingness in faculty and staff paves the way for effectiveness and efficiency in the processes.

6.2.7 Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.

General Body Meeting held on 24/01/2016 at 10 AM in the chambers of the Chairman, NRIIT

AGENDA ITEMS :

1. To discuss about the strategy for admissions in NRI Institute of Technology during the Academic Year 2016-17.

NAAC - SELF STUDY REPORT

2. To discuss the results of various branches and PG courses in various Semesters during the Academic Year 2015-16.
3. To discuss about the progress of Campus Placements during 2015-16.
4. To discuss about the requirements regarding building space and infrastructure during 2016-17 Academic Year.
5. Any other Item with the permission of the Chair.

RESOLUTIONS PASSED :

Considered the strategy to be followed for admissions into various branches of B.Tech., M.Tech., and M.C.A., course for the Academic Year 2016-17.

Resolved that the admissions to various branches of B.Tech., courses for the Academic Year 2016-17 be improved.

Further Resolved to authorize the Chairman, Dr. R. Venkat Rao to plan suitable strategy such as advertisement etc., for sustaining the strength in various branches of B.Tech., and M.Tech., courses and M.C.A.

Considered the results of various branches and PG courses in various Semesters during the Academic Year 2015-16.

Resolved that the percentage of passes in all the branches of B.Tech., and results of M.Tech., and M.C.A., are satisfactory. But noted that there are a large number of students in the 1st Year 1st Semester, 2nd Year 3rd Semester, 3rd Year 5th Semester and 4th Year 7th Semester with backlogs especially in certain branches. Hence, resolved to request the Principal and all HODs to take suitable measures to help the students in clearing their backlogs.

I. **Considered** the progress of campus placements during 2015-16.

Resolved to place on record the efforts of Chairman and Placement Department. However, resolved to extend all the help required to the

NAAC - SELF STUDY REPORT

Placement Department to bring more companies for on campus recruitment. Further resolved to authorize the Chairman to take decision regarding allotment of funds required for organizing the Campus Placements.

II. **Considered** the requirements regarding building space and infrastructure during 2016-17 Academic Year.

Resolved to authorize the Chairman to discuss the requirements with the Principal and other members of the teaching departments and plan suitably to organize the required during the summer holidays.

Further Resolved to authorize the Chairman Dr. R. Venkat Rao to spend the required amounts from the Society funds.

III. In view of poor response to MCA admissions, it is resolved to reduce the intake from 120 to 60 from the next Academic Year i.e., 2016-17. To this effect Principal is authorized to make correspondence with concerned authorities.

6.2.8 Does the affiliating university make a provision for according the status of autonomy to an affiliated institution? If 'yes', what are the efforts made by the institution in obtaining autonomy?

Yes. The Affiliating University is providing a provision for Autonomous to affiliated institution. The Management is planning to acquire Autonomous by taking proper steps.

6.2.9 How does the Institution ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder relationship?

The Grievances Redressal Cell is headed by the Co-ordinator and all problems will be solved within a time frame. The Cell will look into the grievances and they will be resolved promptly. The monitoring system also helps in taking prompt action on any complaint received from the students. The complaint box placed also helps in identifying the problems in anonymity also.

6.2.10 During the last four years, had there been any instances of court cases filed by and against the institute? Provide details on the issues and decisions of the courts on these?

No

6.2.11 Does the Institution have a mechanism for analyzing student feedback on institutional performance? If ‘yes’, what was the outcome and response of the institution to such an effort?

Yes. The feedback obtained from the presently studying students is on academic related matters only like performance of the faculty and syllabus coverage. The College obtains student feed back twice in a semester one in the middle of the semester and the second one shall be taken at the end of Semester. In addition, class monitoring committees will provide feedback on coverage of syllabus. After thorough analysis, the head of the department provides views and suggestions and communicates the same to the concerned faculty. Needed support and guidance will be provided by senior faculty. The improvement of the performance of that faculty will be monitored through subsequent feedback. The feedback from the Alumni includes the institutional performance.

6.3 Faculty Empowerment Strategies

6.3.1 What are the efforts made by the institution to enhance the professional development of its teaching and non teaching staff?

- Training teachers for excellence
- Sponsoring Faculty & Staff for higher education.
- Sponsoring Faculty & staff for attending workshops, conferences at national and international level by granting academic leave and providing financial assistance.
- Organizing Faculty development programmes
- Encouraging faculty to deliver guest lectures outside
- Providing industrial training to faculty for e.g., campus connect programme of Infosys, Wipro 10x Mission.
- Motivating faculty by providing incentives such as “Best Teacher Award”, encouragement for paper publications.

NAAC - SELF STUDY REPORT

For the non teaching staff the computer awareness programme and spoken / written English classes are being organized every summer by Departments of CSE & English respectively.

6.3.2 What are the strategies adopted by the institution for faculty empowerment through training, retraining and motivating the employees for the roles and responsibility they perform?

- Training new Faculty on instructional design & delivery by the experts from NITTTRI, Chennai and faculty from premium institutions before the commencement of academic year.
- Training faculty on emerging tech problems in industry by eminent external faculty from industry and institution by organizing guest lectures and seminars
- Deputing faculty to refresher courses.
- Formulation of various committees with faculty as coordinator / member with proper allocation of work, assigning responsibility and grant of adequate authority and autonomy.
- Constitution of best teacher award in teaching / research and thus appreciation of the expertise in merit and talent every year.
- Faculty are entitled to be sponsored for training programmes, paper presentations, attending seminars, workshops, quality improvement programmes etc.
- Besides better working environment conducive to teaching learning processes, other benefits like PF and incentives for both better performances as well for acquiring higher educational qualification has made the college to have higher retention ratio.

6.3.3 Provide details on the performance appraisal system of the staff to evaluate and ensure that information on multiple activities is appropriately captured and considered for better appraisal.

The Performance of the faculty is analyzed through the details provided by them in the self-appraisal form every year. The performance of the faculty is assessed basing on various parameters such as

NAAC - SELF STUDY REPORT

- Examination results on the lines of pass percentage, relative position with respect to other affiliated colleges of the university, scores of students etc..
- Student feedback
- Involvement in co-curricular and extra-curricular activities
- Responsibilities taken in the department
- Publications and research work etc..
- The score is computed for 100 and all these are evaluated. The performance of each faculty is reviewed by the administration and the areas of improvement are suggested.

6.3.4 What is the outcome of the review of the performance appraisal reports by the management and the major decisions taken? How are they communicated to the appropriate stakeholders?

The outcomes of the performance appraisal will reflect in the annual increment, incentives and the promotion of the faculty. They are communicated through annual increment order and promotion orders.

6.3.5 What are the welfare schemes available for teaching and non teaching staff? What percentage of staff have availed the benefit of such schemes in the last four years?

A healthy and good retention ratio is maintained in the faculty cadre by creating a good environment and providing incentives as detailed below.

- Free Transport for all employees. 100%
- Incentives , Promotion and increments are given. 100%
- Maternity leave and post maternity are provided for once. 100%
- Earned Leave, Employee provident fund, Medical Leave are provided. 100%
- Employee Provident Fund. 60%
- Sponsorship to Workshops/Seminars/Refresher Courses, On Duty. 100%

6.3.6 What are the measures taken by the Institution for attracting and retaining eminent faculty?

NAAC - SELF STUDY REPORT

Providing an academic environment conducive for teaching, pursuing research, participation in curricular, co-curricular, extra-curricular, training and placement activities aimed to enhance the quality of education, competency of the students and the reputation of the Institution. Systematically conducted appraisal and giving due recognition and awards for good performance, making available a number of staff welfare schemes, maintaining a good administrative system and offering attractive salary to attract and retain the eminent faculty. All the welfare schemes outlined in section 6.3.5 above help the institute to attract and retain faculty.

- Annual increments are paid regularly
- Women faculty is provided provision with maternity leave
- Publicizing faculty achievements through notices, mails and website.
- Medical Leave and Special Casual Leave on medical grounds.
- Pongal, Dasara & Summer paid vacations
- Provision for Sabbatical Leaves

6.4 Financial Management and Resource Mobilization

6.4.1 What is the institutional mechanism to monitor effective and efficient use of available financial resources?

The Institution has well defined mechanism to monitor effective and efficient use of available financial resources. College obtains budget proposals from concerned departments in a academic year. After assessing the projected income for an academic year, college allocates budget to each department with minute details. After the allocation, the departments can avail the financial resources within the sanctioned limit.

Purchases will be made with the recommendations of duly constituted purchase committee. The amounts withdrawn from the banks will follow a systematic mechanism of obtaining the approval at various levels. If any expenditure is made beyond budget sanction, ratification will be done in a special meeting.

6.4.2 What are the institutional mechanisms for internal and external audit? When was the last audit done and what are the major audit objections? Provide the details on compliance.

Audits are conducted in every quarter. There are no major audit objections.

NAAC - SELF STUDY REPORT

6.4.3 What are the major sources of institutional receipts/funding and how is the deficit managed? Provide audited income and expenditure statement of academic and administrative activities of the previous four years and the reserve fund/corpus available with Institutions, if any.

Audited data for income and expenses for the last 4 years

S.No.	Description	2015-16	2014-15	2013-14	2012-13
1	Income (Rupees)	183,264,545.00	162,083,334.00	128,175,742.00	98,099,231.00
2	Academic Expenses (Rupees)	65,906,880.01	50,478,106.38	58,459,888.71	12,307,588.82
3	Administrative Expenses (Rupees)	88,145,433.49	70,650,028.37	57,896,402.53	83,192,059.58
	Total expenses (Rupees)	154,052,313.50	121,128,134.75	116,356,291.24	95,499,648.40

6.4.4 Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any)

The institution encourages faculty to apply for various schemes available under different government organizations such as AICTE, UGC, CSIR, etc.

6.5 Internal Quality Assurance System (IQAS)

6.5.1 Internal Quality Assurance Cell (IQAC)

- a. Has the institution established an Internal Quality Assurance Cell (IQAC)? If 'yes', what is the institutional policy with regard to quality assurance and how has it contributed in institutionalizing the quality assurance processes?**

Yes. The institution has established an Internal Quality Assurance Cell (IQAC). The policies of the institutional quality assurance cell are:

NAAC - SELF STUDY REPORT

- To equip the students of the college with the knowledge in the latest trends in their respective fields to prepare them to meet the requirements of the job market.
- To focus on augmenting the placement of the final year students in reputed companies through effective campus placement drives.
- To organize more number of guest lectures by eminent resource persons/subject experts in all the departments to enhance the academic input.
- To continue the schemes of Remedial classes for the slow learners and Bridge courses for students from other school backgrounds.
- To conduct Faculty Development Programmes (FDPs) periodically to update their knowledge.
- To record all the major and minor achievements of all the Departments and publish them in newsletters in clusters.
- To continue the activities of the Center for Research and to document all research related proceedings of the faculty through effective centralized recording system.
- To improve the communicative skills of the students.
- To upgrade the industry-institution relationship by developing linkages with professional/research bodies
- To conduct a social audit and to enhance the status of the institution in the society.
- To inculcate the spirit of service mentality among student volunteers through NSS activities
- To give adequate counseling and guidance to students in their personal / academic / professional fronts through the Counseling and Guidance cell.
- To encourage more number of students to participate in sports by providing them with required training, coaching and guidance.

b. How many decisions of the IQAC have been approved by the management / authorities for implementation and how many of them were actually implemented?

Our college management strongly believes in quality education as mentioned in the vision and mission statements and thus approves and supports the activities of IQAC and approved the decisions taken by the body as mentioned in the Academic Calendar.

c. Does the IQAC have external members on its committee? If so, mention any significant contribution made by them.

External Members are

1. Mr. Hara Gopal, ISO Consultant
2. Mr. Chakravarthi, Auditor, BMQR Certifications

The presence of external members on IQAC Committee has immensely helped the body and the institution in planning and execution of the events in an efficient manner. The presence of other members from industry helps in redefining some of the parameters in improving the quality of the skills of the students to make them placement / industry ready by the time they complete the course.

d. How do students and alumni contribute to the effective functioning of the IQAC?

The committee also consists of students and Alumni as members. The Students are regularly interacts with the college and any suggestions are well taken for the improvement of quality in various activities of the college.

The members of the committee are

1. Dr. C. Naga Bhaskar, Principal
2. Dr. M.V.N. Sarma, Director
3. Dr. K.V. Sambasiva Rao, Dean
4. Dr. D. Kailasa Rao
5. Dr. N. Sambasiva Rao
6. Dr. V. Suryanarayana,
7. Prof. R. Sunitha
8. Prof. B. Mouleswara Rao
9. Prof. V. Sudhakara Rao
10. Prof. R. Vijaya Krishna
11. Prof. Ch.Ch. Srinivas.
12. Prof. M. Babu Prasad
13. Sri. K. Vamsi Krishna

e. How does the IQAC communicate and engage staff from different constituents of the institution?

The faculty and non-teaching staff representatives are nominated as members of the general body of IQAC. The IQAC elicited the views of the staff members of the institution who proposed the conduct of various curricular, co-curricular and extra-curricular events and the proposals were subsequently discussed and finalized in IQAC meetings. The IQAC also regularly interacts with the staff members through circulars and periodic meetings to ensure their effective participation in all the activities of the body.

6.5.2 Does the institution have an integrated framework for Quality assurance of the academic and administrative activities? If ‘yes’, give details on its operationalisation.

Yes. All the Academic bodies and administrative sections of the institution interact with IQAC and scrupulously follow its guidelines in maintaining quality standards. The committee for Academic and Administrative Audit (AAA) of the institution was also constituted to audit the activities of different departments.

6.5.3 Does the institution provide training to its staff for effective implementation of the Quality assurance procedures? If ‘yes’, give details enumerating its impact.

Yes. The institution organizes training programme to its staff members for creating an awareness and effective implementation of the Quality Assurance procedures. This helps the faculty to work for excellence and ensures all the stakeholders are benefited. The general body meetings ensures the policies made on quality assurance reach to all the faculty members. Apart from this, the institute encourages and sponsors faculty in participating in various orientation and refresher programmes, workshops, conferences, seminars etc., organized by reputed institutions like Central University, NITs and IITs .

6.5.4 Does the institution undertake Academic Audit or other external review of the academic provisions? If ‘yes’, how are the outcomes used to improve the institutional activities?

Yes. The institution has organized the Academic and Administrative Audit (AAA) on the basis of Self Assessment reports submitted by the respective departments and by using the standard procedures. The outcome of the audit is

to identify the deficiencies and take corrective steps for improving the institutional activities.

6.5.5 How are the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies/regulatory authorities?

The quality parameters evaluated by the various regulatory bodies such as AICTE and UGC are directed to enhance the quality in various criteria such as teaching-learning processes, development of infrastructure facilities, students progression, enhancing the research & development activities etc. The IQAC policies and objectives of the institution are so framed that they are in tune with the standards set by such agencies.

6.5.6 What institutional mechanisms are in place to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?

- The following mechanisms are in place to review Teaching -Learning Process
- Class work Review Committees (CF) to assess the extent of syllabus coverage, and also the quality of teaching.
- The lesson plans, quality of course material, assignments and question papers prepared by the faculty are assessed internally and suitable suggestions are given for enriching the teaching and learning processes.
- The feedback from students on faculty performance will be taken twice in a semester to evaluate the teacher performance in class room teaching on 12 parameters on a 5 point scale. The feedback is analyzed and evaluated for a maximum score of 100 and every teacher is provided with a copy of feedback for making necessary corrective action. Further, teachers are counseled by the head of the department and also by the Principal if required.
- Annual reviews are conducted using -appraisal forms to evaluate the performance on teaching, research and other performance related issues.

- The head of the institution interacts with few students of each class and takes the feedback on the teachers on the effectiveness of their teaching.

6.5.7 How does the institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders?

The institution communicates its quality assurance policies, mechanisms and outcomes through college publications, periodic meetings and website.

CRITERION - VII

INNOVATIONS AND BEST PRACTICES

7.1 Environment Consciousness

7.1.1 Does the Institute conduct a Green Audit of its campus and facilities?

Yes

NRIIT is located in a serene environment with plenty of Mango trees and blooming greenery since its inception. The institution is very conscious towards conservation, safety and sustainability of the environment. The institution believes in environmental responsibility and sticks to resource practices, such as waste reduction, recycling, reuse and energy conservation. The maintenance department of the college organizes green audits on a periodic basis which has made the campus eco-friendly. The lawns and gardens consists of good number of rain water harvesting structures, large number of trees, and the lawns are well maintained with water supplies by using recycled water,. Our NSS volunteers and gardeners take care of the garden and green campus. The college campus is a non polluting smoke free zone. Harmful products like tobacco are banned in the campus.

7.1.2 What are the initiatives taken by the college to make the campus eco- friendly?

Energy conservation

The buildings are designed in such a way that there is natural illumination and ventilation in the buildings and across the campus. The eco-friendly activities adopted in the campus are: energy efficient and star rated fans, rain water harvesting pits are constructed throughout the campus. Efforts are on to replace high energy consuming bulbs by LED bulbs, use of LCD/LED TFT monitors in all labs. An eco-friendly generator has been set on the campus to minimize the atmospheric pollution. To conserve energy with the existing system, the staff, faculty, students switch off lights, fans and other electrical devices to avoid wastage of energy when they are not in use. Windows are kept open to take advantage of natural light at the work places. Besides this the maintenance staff monitors the usage and manually controls the wastage.

Use of renewable energy

The Conventional Energy sources are fast depleting in strength and

NAAC - SELF STUDY REPORT

pushing us gradually towards an energy crisis. Exploring renewable energy sources like Solar Power is the only alternative affordable environment friendly technology that can cater to our ever growing energy needs. NRIIT took the initiative of establishing a 200 KVA solar plant on the roofs of four buildings using grid technology. The roof top Solar Power plant at NRIIT stands as a testimony to the fact that any forward looking organization can implement plans to meet their energy needs. The surplus electricity produced by our plant is fed into the A P Transco grid using the Net Metering Technology. This plant is capable of producing 750 to 1000 units of power every day including holidays and vacations. This plant is being maintained daily by the department of Electrical and Electronics Engineering.

Solar Street lights have been installed in the campus. It is proposed to install a bio gas plant in the institution to utilize the kitchen waste and the food waste from the hostel and canteen. The bio gas so generated can be used for cooking in the canteen and in hostels.

Water harvesting

Rain water from the top of the building is collected and is either stored or allowed to sink into the land. The water so collected is re used for gardening and other places. During summer this water is mostly used from the watershed. The waste water generated from canteen, hostels and academic blocks is used for the purpose of not only maintaining garden but also for growing vegetables in the institution. About 50% of the water so collected is used for this purpose and the remaining water goes towards re charging of the ground water.

Efforts for Carbon neutrality

The institution is located away from the city and is surrounded by Mango gardens and agricultural fields. The institution is committed to lowest CO₂ emission. The college management takes certain measures to prevent the emission of carbon dioxide in the campus. Motor vehicles are kept at a distance from the classrooms in the ear marked parking sheds. The dead leaves of the plants and the waste paper are never allowed to be put on fire but properly are disposed off in the pits dug in the earth and thus reducing atmospheric pollution. They are also used as manure for the plants. Institution also campaigns greenhouse gases measured in terms of their carbon dioxide equivalence. This helps in keeping the campus free from spreading CO₂ to a great extent.

Plantation

Instituted in the green lush mango gardens, our institution is built without disturbing any of the tall grown mango trees. Academic

blocks, hostels, playgrounds and other facilities are highly covered with shade of tall grown trees. On the sides of walk ways, green cover and flower bearing plants are planted. Plantation programme is the pet project of the NSS Unit of the college. This programme has been in progress right from the inception of the College. Saplings of various types of trees were planted in almost seven villages in and around the college by out NSS volunteers. The staff, students, parents; alumni are encouraged to plant trees inside and outside the campus. VIPs visiting the institution are requested to plant the trees. The Green club of the college takes up the responsibility of guarding the saplings from being damaged.

E-waste management

Processing of electronic waste causes serious health and pollution problems. Therefore the institution takes utmost care in effectively making use of the e-waste material. Since majority of the electronic devices contain variety of materials we intend to make arrangements to dismantle the system and re use where ever it is possible. Out dated and low end components are used for demonstration purpose either in our institution or in local schools.

7.2 Innovations

7.2.1 Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the college.

- Continuous evaluation and monitoring of performance of teachers based on feedback collected from the students and pass percentage in the subjects handled by them.
- Introduction of tutorial classes, remedial classes are integrated in the time table. This practice has improved the pass percentage of students and has helped in developing learning abilities among the students.
- Several innovative methodologies like, quizzes, personality development, cross word puzzles, real time demonstrations, group discussions have been introduced.
- The Principal has appointed a review committee to review all academic activities. The curriculum is devised into modules and the time schedules are planned in advance. In case of shortage, in curriculum design and development, add on subjects and add on experiments are included.

NAAC - SELF STUDY REPORT

- Over and above the subject, stipulated by the University about 10-15% more content is taught to the students where ever required to give wider knowledge base to the students.
- More electives are offered to suit the requirement of students.
- Students are encouraged to carry out projects in the college.
- Students are made to write their project reports. This will enhance the report writing among the students.
- Students profile is collected at the time of admission based on their economic conditions, rural background, medium of instruction, till that date and it helps in orienting the students to the Engineering education. Based on this bridge courses and value added courses are framed.
- When benchmarked with other Engineering Institutions, our institution ranked best upcoming in the district of Krishna.
- Emphasis is given on Research activities and publications of research papers by students and faculty members.
- Every faculty member is allotted 20 students. The faculty member acts as a counselor and mentor for these 20 students.
- College has created a robust e-learning facility for the students of all branches through the digital library. Individual lectures or videos by eminent professors from various IITs, NPTEL video lectures and learning materials provided by JNTU-Kakinada through the e-learning initiative called CoEeRD (Centre of Excellence for e-Resource Development and Deployment) are kept available in the digital library. Students of all departments can access this e- learning material through internet.
- Several innovative methodologies such as Role play, Quiz, Brain storming, Mind mapping, Comparison Charts, Guided Design, AtoZ approach, Analogy, Real Time Demonstrations, Group Discussions, Concepts Sketch are used in class rooms to make the complicated concepts easy.
- Placement oriented training is implemented to all the students from the second year onwards. The training programme is incorporated into the curriculum.
- Extension lectures are conducted on regular basis where experts from different walks of public life interact with the students.
- In order to bridge the Institution-Industry skill gap, experts from industry, academia and alumni are made members of the Academic Advisory Committee.
- To promote research attitude among students besides helping them get placements mini projects and major projects are entrusted to them.
- More elective courses are offered as per the curriculum, to meet

the varied interest of the students.

At the time of admission, proper guidance is given by the staff members and HoDs to the aspiring candidates about the scope and objectives of various programmes to enable them to choose the programme of their choice.

7.3 Best Practices

7.3.1 Elaborate on any two best practices, which have contributed to the achievement of the Institutional Objectives and/or contributed to the Quality improvement of the core activities of the college.

Best Practice I

Title of the Practice: Enhancing student skill set

Objectives :

To enhance the following skills among the students:

- Technical competence
- Interpersonal Skills
- Employability skill

The Context

The college has been working with the aim of making it a Centre of excellence. Students from different levels & backgrounds need training to improve their technical as well as employability skills. Considering these requirements, college is providing excellent facilities to the students to improve their skills and to achieve their career goals. The college has been facilitating young adult learners with opportunities to hone their ethics and leadership potential.

The Practice

To realize the student's aspirations our college has offered Spoken English classes for all the second year students UG students and Aptitude classes for Third year and Final year UG students. Spoken English classes are taken care of by the Faculty of English. Online placement tests are periodically conducted to enhance aptitude,

NAAC - SELF STUDY REPORT

mental ability and reasoning of the students to improve their employability. The placement cell convenes group discussion and mock interviews to train them well for placements.

Evidence of the success

B. Tech / M.Tech / MCA PLACEMENTS DATA - COMPANY WISE FOR 2015-2016 BATCH

S.No.	Company Name	No. of Placed students	Salary offered (Rupees)
1	TECH MAHINDRA	29	3.25 L
2	HEXWARE TECHNOLOGIES	24	2.5 L
3	INFOSYS	9	3.2 L
4	WIPRO	2	2.2 L
5	MPHASIS	4	2.5 L
6	NTT DATA	2	3.0 L
7	SLK SOFTWARE	4	2.4 L
8	TCS	12	3.33 L & 3.5 L
9	TECH TAMMINA PVT. LTD.	14	2.8 L
10	ODESSA TECHNOLOGIES	0	2.4 L
11	CMS	72	2.5 L
12	UX REACTOR	3	3.3 L
13	SYNTEL	17	2.9 L
14	FLEXIWARE SOLUTIONS	9	1.9 L
15	GOOD THROUGH	6	2.4 L
16	GEMINI COMMUNICATIONS	11	1.92 L
17	DIVAMI SOFTWARE SOLUTIONS	0	3.5 L

NAAC - SELF STUDY REPORT

18	FSS	0	4.5 L
19	INRHYTHM	0	3.0 L
20	VEDA IIT	0	2.5 L
21	NETAFIM INDIA LTD.	9	4.8 L
22	RETAILON	7	4.0 L
23	UNITECH TRANSFER	0	3.5 L
24	JUST DIAL LTD	0	4.0 L
25	VEE TECHNOLOGIES	32	1.5 L
26	ACCEL FRONTLINE GLOBAL IT SERVICES	3	2.3 L
27	GLOBAL LOGIC	0	2.1 L
28	INTONE NETWORKS	0	1 to 4 L
29	RASTER ENGINEERS	4	2.2 L
30	MUSIGMA	0	6.0 L
31	GENPACT	0	2.75 L
32	SANRAY		2.75 L
33	SOFTWAY SOLUTIONS	0	3.35 L
34	JAIN IRRIGATIONS SYSTEMS LTD.	13	3.0 L
35	AVONTIX	0	2.0 L
36	MEDPLUS	14	1.8 L
37	AGS HEALTH CARE	14	1.8 L
38	MainTec	0	1.5 L to 2.0 L
39	Ramtech Corp	10	1.2 L
40	JSKILZ	17	1.5 L to 2.0 L
	Total	341	

NAAC - SELF STUDY REPORT

B. Tech / M.Tech / MCA PLACEMENTS DATA - COMPANY WISE FOR

2014-2015 BATCH

S.No	Company Name	No. of Placed students	Salary Offered (Rupees)
1	Tech Mahindra	34	3.03 L
2	ATOS	18	3.3 L
3	Value Labs	5	1.8 L
4	Sutherland Global Services	9	1.32 - 2.04 L
5	NTT Data	2	3 L
6	Infosys	4	3.2 L
7	Virtusa	3	3.6 L
8	Mphasis	2	2.5 L
9	Digital Juice	1	2.4 L
10	Wipro	8	1.62 L
11	Eider Motors	1	1 L
12	Efftronics	1	1.75 L
13	Knoah Solutions	3	1.5 L
14	Miracle Solutions	1	2.4 L
15	CSS Corp	2	3 L
16	Cadeploy	5	1.2 L
17	Elico	22	1.8 L
18	TCS	2	1.5 L

NAAC - SELF STUDY REPORT

19	LG Soft	1	5.3 L
20	TPCIL	1	3 L
21	eClerx	10	3.5 L
22	Cadysys	4	1.2 L
23	Zen3	5	1.5 L
24	Tata BSS	3	1.9 L
25	SYNTEL	11	2.9 L
26	INPLENION	2	2 L
27	Medico	11	1.6 L
28	AGS Health	24	1.5 L
29	Sutherland Global Services	4	1.32 - 2.04 L
	Total	199	

B. Tech / B. Pharm / M.Tech / MCA PLACEMENTS DATA - COMPANY WISE FOR 2013-2014 BATCH

S.No.	Company Name	No. of Placed students	Salary Offered (Rupees)
1	ATOS	5	3.0 - 3.2 L
2	TedX	2	2.2 L
3	APPS FOR BB	1	1.2 L
4	GLENWOOD(L-CUBE)	6	1.8 - 2.2 L
5	NTT DATA	2	3.0 L
6	KRDS FACEBOOK	2	4.0 - 9.0 L
7	VIRTUSA	1	3.6 L

NAAC - SELF STUDY REPORT

8	SCRAPEHERE	3	1.8 L
9	ABHYAS HRD	4	1.8 L
10	Lucid Software	3	3.0 L
11	GENPACT	1	1.2 - 1.8 L
12	SPOORS Software	2	1.2 - 1.8 L
13	Mphasis	1	2.8 L
14	CHOICE SOLUTIONS	5	1.6 L
15	E4E	7	1.2 L
16	CSS CORP	6	2 L
17	TCS	3	3 L
18	SPOORS	2	1.2 L
19	CTS	8	3.07 L
20	HCL TECHNOLOGIES	3	1.52 L
21	CADEPLOY Engineering	9	1.2 L
22	INFOSYS	25	3.12 L
23	TECH MAHINDRA	15	3.07 L
24	ACROPETAL TECHNOLOGIES	1	3 L
25	EFFTRONICS	11	3 L
26	Mmodal global services	34	1.2 L
27	FSS SOFTWARE LTD	2	2.2 L
	Total	164	

Problems Encountered and Resources Required

As majority of the students are from the rural areas there is a need for enhancing the interpersonal skills among them. The college believes that by improving the employability among the students from rural back

NAAC - SELF STUDY REPORT

grounds we can bring drastic changes in the socio economic conditions of their respective families. Personality Development Programmes and motivational lectures are organized to build confidence in these students.

Best Practice - II

Title of the Practice : Research by Faculty Members

Objective

The main aim is to create a conducive environment for the conduct of research by establishing the necessary infrastructure, human resources and motivation to nurture the research competencies among the faculty members.

The Context

The college offers 6 UG and 6 PG degree programmes in various engineering departments. It is the responsibility of faculty members to inculcate effective learning methodologies in their students to understand various engineering concepts. To accomplish this, they need to be creative and innovative in their approach to teaching / learning activities and should possess holistic idea about the subjects what they taught, which requires some level of research competencies in the teaching faculty members.

The Practice

The Research and development inspires the faculty members to publish the research papers, attend national/ International conferences and to carry out consultancy work. Cash incentives are given to faculty members who successfully publish their research papers in National/ International journals.

Evidence of Success

The number of Ph.D., degree holders in the institution has increased considerably. There are 43 faculty members pursuing Ph.D in NRIIT. The results of above said practice increases the number of papers published by the faculty members. Many research project proposals have been submitted to various funding agencies.

Problem Encountered and Resources Required

The staff members are finding it difficult to find the time to carry out this type of activities due to their academic commitment. Laboratories, e-learning facility and computer aided packages are the required resources. The management is planning to construct staff quarters in the campus in the near future to enhance the research activity.

Best Practice III:

Title of the Practice: Social responsibility of Faculty and Students towards Society

NAAC - SELF STUDY REPORT

Objectives

To develop moral and ethical values among faculty and students, to imbibe education among faculty and students for upliftment of society, to inspire students and faculty of educationally deprived community, to develop social responsibility among students and faculty, to create harmony and peace among all sections of society.

The Context

To develop society, the institution has decided to educate the faculty and the students on social, ethical, moral values and value based system in the society. The need of the society is to develop young engineers with ethical values, entrepreneur skill and a bent of mind towards research and development. The research work carried out by the students and faculty should culminate in to a useful product to the society.

The Practice

The institution creates awareness among all the concerned by the following practices as mentioned. The institution conducts courses on yoga, stress management. The experts are invited to the institution for this purpose. Institution conducts NSS programs through organizing blood donation camps, tree plantation, and visit to rural areas and educate villagers about the evilness of untouchability.

It also understands the importance of learning throughout life and acquiring life skills and organizing cultural co-curricular programs, tours, visits and conferences to develop interpersonal skills, decision making etc. Institution also celebrates Teachers' Day, Engineers Day to commemorate the great contribution made by Dr. Sarve Palli Radha Krishna and Sir. M. Vishweshwaraiah respectively. Institution gives priority and concession in tuition fee to economically weaker students in deserving cases.

Institution has code of conduct for staff and students. Institution provides information about government aids freeship, scholarship, competitive examination to the students and to the faculty.

The Central Library is kept open beyond working hours.

Health camps are organized regularly among the faculty, students and staff. One village is adopted every year and students educate the villagers. Medical camps are arranged in the surrounding villages

Evidences of success:

With the above innovative practices adopted by the institution, the success rate in terms of pass percentage, employability and ethical and moral values

NAAC - SELF STUDY REPORT

has improved considerably. This practice of inculcating moral values and ethics helped our faculty and students in going to villages and educating the villagers to keep the village clean, follow sanitation, use purified drinking water, keep away from contagious diseases, etc., thus the institution to some extent transformed the life of common man in villages through their faculty and students.

Problems encountered:

Due to limited resource of the institution our faculty and students have not adopted more villages to do the above job. A separate budget if allocated by any agency will help the institution to do more meaningful work in the villages.

Contact Details

Name of the Principal : Dr C.Naga Bhaskar
Name of the Institution : NRI Institute of Technology
City : Vijayawada,
Pin Code : 520012
Accredited Status : In Progress
Work Phone : 0866-2469665
Fax : Nil
Website : www.nrigroupofcolleges.ac.in
E-mail : nrihitech@rediffmail.com
Mobile : 9390686868

NAAC - SELF STUDY REPORT

EVALUATION REPORT DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

1. Name of the Department : **Electronics and Communication Engineering**

2. Year of Establishment : **2008**

3. Names of Programmes / Courses offered:

S.No	Course	Specialization	Year of Establishment
1	U.G (B.Tech)	Electronics & Communication Engineering	2008
2	P.G (M.Tech)	Digital Electronics and Communication Systems	2013

4. Names of Interdisciplinary courses and the departments/units involved:

S. No	Interdisciplinary	Department Involved
1	a) Electrical Technology b) Network analysis c) Control systems d) Networks and Electrical Technology Lab	EEE
2	a) English – I b) Mathematics – I c) Mathematics – II d) Applied Physics e) Professional Ethics and Human Values f) English – II g) Mathematics – III h) Applied Chemistry i) Managerial Economics & Financial Analysis j) Management science k) Environmental Studies l) Intellectual Property Rights and Patents m) English - Communication Skills Lab -1 n) Applied/Engineering Physics Laboratory o) Applied/Engineering Physics Virtual	BS&H

NAAC - SELF STUDY REPORT

	Laboratory p) Engineering Workshop & IT Workshop q) Applied/Engineering Chemistry Laboratory r) English - Communication Skills Lab -2	
3	a) Computer Programming b) Object-oriented programming through C++ c) Data structures d) Computer Architecture and Organization e) C Programming Lab f) Object-oriented programming Laboratory	CSE
4	a) Engineering Drawing b) Engineering Mechanics	ME

Note: EEE - Electrical and Electronics Engineering Department
 CSE - Computer Science Engineering Department
 ECE - Electronics and Communication Engineering Department
 ME - Mechanical Engineering Department
 BS&H - Basic Sciences and Humanities

5. Annual/ semester/choice based credit system (Program wise):

S.No	Course	Branch	System
1	U.G	Electronics & Communication Engineering	Semester Based Credit System
2	P.G	Digital Electronics & Communication systems	Semester Based Credit System

6. Participation of the department in the courses offered by other departments:

NAAC - SELF STUDY REPORT

S.No	Courses	Courses offered to Departments
1	a) Basic Electronic Devices and Circuits b) Micro Processors and Microcontrollers c) Switching theory and logic design d) Pulse and digital circuits e) Linear Integrated and Digital circuits f) Micro Processors and Micro controllers Lab g) Electronic Devices and Circuits Lab	EEE
2	a) Digital Logic Design b) Data Communications c) Digital logic design lab	CSE & IT
3	Basic Electrical and Electronics Engineering	CE
4	a) Basic Electrical and Electronics Engineering b) Basic Electrical and Electronics Engineering lab	ME

7. Courses in collaboration with other universities, industries, foreign institutions, etc.:

S. No	Name of Course	Collaboration with Universities
1	Campus Placement Training	Andhra Pradesh State Skill Development Corporation
2	Project Skill Development Program	
3	Faculty Development Program	
4	MATLAB Software	ARK Info solutions
5	ANSIS HFSS	

8. Details of courses/programmes discontinued (if any) with reasons: **NIL**

9. Number of teaching posts:

Designation	Sanctioned		Filled	
	U.G	P.G	U.G	P.G
Professors	3	1	1	1

NAAC - SELF STUDY REPORT

Associate Professors	7	1	8	1
Asst Professors	22	2	24	1

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

S.No	Name	Qualification	Designation	Specialization	Total (Yrs) Experience
1	Dr.V.Vasudeva Rao	Ph.D.,M.Tech	Professor	Bio Medical Electronics	38
2	R. Sunitha	M.Tech(Ph.D)	Professor	Microwave Engineering	20
3	M.S.S.S.Srinivas	M.Tech(Ph.D)	Assoc. Prof	Communications & Radar Systems	17
4	S.V. Rama Rao	M.Tech(Ph.D)	Assoc. Prof	Instrumentation Control Systems	16
5	Abdul Rahiman.Sk	M.Tech(Ph.D)	Assoc. Prof	Microwave engineering	14
6	G. Srinivas Babu	M.Tech	Assoc. Prof	DECS	13
7	V. Srinivasa Rao	M.Tech(Ph.D)	Assoc. Prof	Communications	12
8	P. Venu Gopal	M.Tech	Assoc. Prof	VLSI System Design	12
9	M. Suneel	M.Tech(Ph.D)	Assoc. Prof	Embedded Systems	9
10	Y. Arpitha	M.E (Ph.D)	Assoc. Prof	Embedded System Design Methodologies	9
11	B. Swathi	M.Tech(Ph.D)	Assoc. Prof	DECS	8
12	Sk. Ashraf Ali	M.Tech	Asst. Prof	VLSI	8
13	Ch. Swathi	M.Tech	Asst. Prof	DECS	8
14	M.P. Kishore	M.Tech	Asst Prof	VLSI Design	8
15	R. Upendar Rao	M.Tech	Asst Prof	VLSI Design	8

NAAC - SELF STUDY REPORT

16	D. Ravi Shankar	M.Tech	Asst Prof	DECS	7
17	P.B. Sudha Rani	M.Tech	Asst Prof	Systems & Signal Processing	6
18	P. Amrutha Valli	M.Tech	Asst Prof	VLSI Design	6
19	M. Mahesh	M.Tech	Asst Prof	DECS	5
20	K. Prathyusha	M.Tech(Ph. D)	Asst Prof	Embedded Systems	5
21	M.Jaya Sri	B.Tech	Asst Prof	ECE	5
22	Ch. Uday Bhaskar	M.Tech	Asst Prof	VLSI System Design	4
23	N. Srikanth	M.Tech(Ph. D)	Asst Prof	VLSI System Design	4
24	T. Sumaltha	M.Tech	Asst Prof	VLSI & Embedded Systems	4
25	Ch. Swapna	M.Tech	Asst Prof	VLSI Design	3
26	A.Satti Babu	M.Tech	Asst Prof	Communication Systems	3
27	J. RajKumar	M.Tech	Asst Prof	Computer Networks	3
28	G.Sivarama Krishna	M.Tech	Asst Prof	VLSI & Embedded Systems	3
29	B. Sravani	M.Tech	Asst Prof	System& Signal Processing	2
30	B.Y. Gopinath	M.Tech	Asst Prof	Communication System	2
31	A.Bhavya	B.Tech	Asst Prof	ECE	2
32	P.R. Bhavana	M.Tech	Asst Prof	VLSI & Embedded Systems	1
33	A. Brahmani	M.Tech	Asst Prof	DECS	1
34	T. Nistchala	M.Tech	Asst Prof	DECS	1
35	G. Prashanthi	M.Tech	Asst Prof	Embedded Systems	1
36	J. Sowjanya	M.Tech	Asst Prof	VLSI Design	1
37	Y. Sravanthi	M.Tech	Asst Prof	DECS	1

NAAC - SELF STUDY REPORT

38	K.Thanuja	M.Tech	Asst Prof	ECE	1
-----------	-----------	--------	-----------	-----	---

11. List of Senior Faculty Visiting : NIL

12. Percentage of lectures delivered and practical classes handled (programme wise) by

Temporary faculty :

NIL

13. Student -Teacher Ratio (programme wise):

UG: B.Tech in Electronics and Communication Engineering:
- **15:1**

PG: M.Tech in Communication Engineering and Signal Processing:
- **12:1**

14. Number of academic support staff (technical) and administrative staff;

Sanctioned or filled:

S.No	Staff Designation	Sanctioned	Filled
1	Academic Support Staff	5	5
2	Administrative Staff	1	1

15. Qualifications of teaching faculty with D.sc/D. Lit/Ph.D/M. Phil/P.G:

S.No.	Qualification	Members
1	Ph.D	1
2	P.G.	36

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: National and International funding

NIL

However the following faculties have applied for funding agencies for projects and conduction of Seminars and Workshops.

NAAC - SELF STUDY REPORT

S.No	Name of the Funding Agency	Name of the Faculty	Name of the Project	Amount(Rs.)
1	SERB	S.V.Rama Rao	"Developing a hybrid gravitational search algorithm and genetic algorithm (HYBRID GSAGA) for enhancing the performance of smart antenna systems"	14,00,000
2	AICTE-AQIS App No: 3350055385	R.Sunitha	Two Day National Workshop on Advanced Video and Image Processing	3,75,500
3	AICTE-AQIS App No: 3349994242	M.S.S.S.Srinivas	Two day National level Symposium on Recent Advancements in ECE	4,18,500
4	AICTE-AQIS App no: 3348743342	Y.Arptha B.Swathi	FDP : Advanced Signal Processing & Bio medical Applications	5,77,000

17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants

Received : **NIL**

18. Research Centre /facility recognized by the University

: **NIL**

19. Publications: a)

NAAC - SELF STUDY REPORT

S.No	Faculty Name	Total No. of Papers Published	No. of the journals National/ International	No. of the Conferences National/ International	Avg of Impact Factor of journals
1	R. Sunitha	4	4	-	1.8
2	V. Srinivasa Rao	2	2	-	3.5
3	B Y Gopinath	2	2	-	0.75
4	D. Ravi Shankar	1	1	-	1.69
5	R. Upendar Rao	2	2	-	2.49
6	S. A. Rehman	1	1	-	1.92
7	K. Prathyusha	13	13	-	1.99
8	G. Srinivas Babu	4	4	-	1.84
9	M.S.S.S. Srinivas	8	8	3	1.81
10	Y. Arpitha	3	3	-	3.19
11	M. Suneel	2	2	-	1.9
12	S.V.Rama Rao	4	4	1	1.9
13	Ch.Swathi	1	1	-	
14	Sk.Ashraf Ali	1	1	-	

- No of publications listed in International data base (For Eg: Web of Science, Scopus, Humanities International Complete Database- International Social Sciences, Directory EBSCO host etc)

- **6 Scopus**

- Monographs (LAB MANUALS) -

11

- Chapter in books -

NIL

NAAC - SELF STUDY REPORT

- Books Edited -

NIL

- Books with ISBN/ISSN no with details of publications -

NIL

b)

S.N O	Faculty Name	Title of The Paper	Name of the journal	Month Year of Publicatio ns	ISSN No
1	R.Sunitha	An Enhanced Technique For Transferring The Image Using Wavelet SVD Mosaic Images Under Color Retrieval Mode	IJRCCT	Nov-2015	2278-5841(O) 2320-5156(P)
		Micro controller based heart beat, blood pressure and body temperature monitoring system using gsm modern	ISOR JECE	2014-15	2278-2834 2278-8735
		Namaskar robot-which provides service	IJEETC	2013-14	2319-2518
		A Model Based Approach for human recognition by Robot	IJERT	2013-14	2278-0181
2	V.SrinivasaRao	Resource Allocation For	IJSETR	2014-15	7854-7858

NAAC - SELF STUDY REPORT

		Wireless Multicast Mimo-Ofdm Systems Using Waterfilling Algorithm			
		Efficacy of using sfbc based slm for paper reduction in mimo ofdm	IJRECE	2014-15	709-717
3	B Y Gopinath	EMD based ECG Signal De Noising Techniques	IJST	2014-15	176-180
		Concealed Weapon Detection Using Image Processing	IJECT	2014-15	13-17-180
4	D.RaviShankar	Design of Wallace Tree Multiplier By Sklansky	IJERA	2013-14	1036-1040
5	R.UpendarRao	Real Time Hand Gesture Detection And Recongition Robot Using Arm-7	JREEE	2014-15	12-17
		Development And Implementation Of Robotic Navigation Systems	IJEAT	2014-15	274-279
6	S.A.Rehman	Implementation of Windowing Technique For Minimizing The Side Lobes In	IJRST	2014-15	

NAAC - SELF STUDY REPORT

		Antenna Array Design			
7	K.Prathyusha	A Real-Time Irrigation Control System For Precision Agriculture Using WSN In Indian Agricultural Sectors	IJCSEA	2013-14	75-80
		Recent trends in FPGA Architecture For Testing the Data Path Using BSCAN,IJAIE M,	IJAIE M	2013-14	584-590
		Design of Embedded systems for the Automation of Drip Irrigation,	IJAIE M	2012-13	254-258
		RFID Based Autonomous Mobile Robotic Platform For Industrial Environment	IJESR	2012-13	303-313
		Wireless Camera Based Online Examination Security	IJERA	2012-13	1432-1435
		Wireless ECG Ssystem Based On Arm LPC 2103 Processor	IJECT	2012-13	115-119
		Novel Navigation Mobile Robot	IJAERS	2011-12	163-166

NAAC - SELF STUDY REPORT

		Implementation Based On RFID Navigation Sysytem			
		Design of Wearable Systems for Interactive Caption and Posture Recognition Using Wireless Sensor Network	IJETT	2013-14	1418-1423
		An Autonomous Self-Propelled Robot Designed for Obstacle Avoidance and Fire Fighting.	IJNTSE	Sep,2016	ISSN 2349
8	G.SrinivasBabu	Moving Object Detection Using MATLAB	IJERT	2011-2012	ISSN: 2278-0181
		Resource Allocation for Wireless Multicast MIMO-OFDM Systems using Water Filling Algorithm	IJRST	2013-14	ISSN: 2349-0845
		Efficacy of Using SFBC Based SLM for PAPR Reduction in MIMO - OFDM	IJRECE	2013-2014	ISSN: 2321-5593(Online) ISSN: 2321-032X(Print)
		Design of Web based Remote	IJTES	2010-2011	

NAAC - SELF STUDY REPORT

		Embedded Monitoring system			
9	M.S.S.S.Srinivas	Investigation of Dielectric Material Changes on the Performance of Multi band Inverted Triangular Serrated Aperture Patch Antenna	IJCSE	2012	2277-1956
		A Novel Compact CPW FED slot antenna with EBG Structure.	ARPN Journal of Engineering and applied Sciences	Feb 2015	1819-6608
		Bandwidth enhanced electromagnetic band gap structure structured closed ground monopole antenna	LEJP &T	Jan-June 2016	1583-1078
		Performance Analysis of Non-cooperative dispersed spectrum sensing in cognitive radio networks	IJEARST	DEC 2015	2278-2566
		A Defected Ground Structure	IJCST	2016	2321-0338(P) 2321-

NAAC - SELF STUDY REPORT

		Compact Fractal Antenna With Proximity Feed For Wide Band Applications			5589(o)
		Compact EBG Controlled Antenna With Defected Ground Configuration	IJCTA	2017	735-742(P)
		Comparative analysis of Bayesian PAPR Reduction Methods for OFDM-Based Massive	IJMTST	Feb,2017	2455-3778
10	Y.Arptha	Power Optimized BIST using Bit-Swapping and Cell Recording Technique	IJSETR	Nov 2014	2319-8885
		16*16 Multiplier Design Using Asynchronous Pipeline Based On Constructed Critical Data Path	IJSRE	Jan 2016	2321-7545
		Delay Reduction For Testing Using LPFRSE	IJRCCT	May 2016	2278-5841

NAAC - SELF STUDY REPORT

20. Areas of Consultancy and Income Generated: **NIL**

21. Faculty as Members in:

a) National Committees: -
NIL

b) International Committees: -
NIL

d) Editorial Board:-

S.No	Name of the Faculty	University/BOS	Status	Year
1	R.Sunitha	BOS(Autonomous)	Chairman	2003-06
			Member	2009-till date
2	M.S.S.S.Srinivas	ANU	Member BOS	2004-05

22. Student projects:

Year	Total no of Students	In House	In House %	Out Side	Out Side %
2016	141	109	77	32	23
2015	145	113	77	32	23
2014	147	115	78	32	22
2013	128	96	75	32	25
2012	64	56	87	8	13

23. Awards and Recognitions received by students:

S.NO	Name of The Student	Title of the event	Name of the Host	Award	Year
------	---------------------	--------------------	------------------	-------	------

NAAC - SELF STUDY REPORT

			Institute/College		
1	A.Keerthi Sai	Ms.Catwalk	NRIIT,Agiripalli	II	2017
2	M.Teja	Mr.Catwalk	NRIIT,Agiripalli	I	2017
3		Mr.SUNRISE			
4	M.Anusha	Ms.SUNRISE	NRIIT,Agiripalli	III	2017
5	V.Niharika	Ms.SUNRISE	NRIIT,Agiripalli	II	2017
6	P.Sindhura	Ms.SUNRISE	NRIIT,Agiripalli	I	2017
7	N. Preethi	Technical Quiz	NRIIT,Agiripalli	II	2017
8	S. H. Geethika	Technical Quiz	NRIIT,Agiripalli	II	2017
9	Ch. Manisha	Project Expo	NRIIT,Agiripalli	I	2017
10	M. Bhavani	Project Expo	NRIIT,Agiripalli	I	2017
11	G. Sai Kumar	Project Expo	NRIIT,Agiripalli	I	2017
12	G.Sai Kumar	Robo Race	NRIIT,Agiripalli	II	2017
13	K.Vinay Kumar	Robo Race	NRIIT,Agiripalli	I	2017
14	B.Vijnatha	Poster Presentation	NRIIT,Agiripalli	II	2017
15	M.Sai Prasanth	Paper Presentation	NRIIT,Agiripalli	II	2017
16	G.Karthik	DTMF Race	IIT Hyd	II	2017
17	T.Hari Rohit	Best Singer	Usha Rama	I	2017
18	T.Hari Rohit	Sur Lehari	Dhanekula	II	2017
19	G.Karthik	Yantrora	Lakkireddy Balireddy College of	I	2016

NAAC - SELF STUDY REPORT

			Engineering		
20	G.Karthik	Mouse Trap Racer	National Institute of Technology Warangal	II	2016
21	G.Karthik	Mobile Control Robotics	National Institute of Technology Warangal	I	2016
22	G.Karthik	Project Expo	Koneru Lakshmayya University	I	2016
23	G.Karthik	Robo War	Koneru Lakshmayya University	I	2016
24	G.Karthik	Project Expo	SRK Institute of Technology	I	2016
25	D.Pujitha	Circuitrix	NRI Institute of Technology	II	2016
26	K.S.Balateja	Circuitrix	NRI Institute of Technology	I	2016
27	Syed Ameenuddin	Project Expo	NRI Institute of Technology	II	2016
28	J.Surya Teja	Project Expo	NRI Institute of Technology	I	2016
29	Saba Sultana	Just A Minute	NRI Institute of Technology	II	2016
30	Ch.Sai Chand	Just A Minute	NRI Institute of Technology	I	2016
31	K.BeenaChoseen	Paper Presentation	NRI Institute of Technology	II	2016

NAAC - SELF STUDY REPORT

32	G.Mouinisha	Paper Presentation	NRI Institute of Technology	II	2016
33	M.Mounika	Paper Presentation	NRI Institute of Technology	I	2016
34	P.V.Sai Srikanth	GeneralQuiz	NRI Institute of Technology	I	2016
35	J.Lakshman Kumar	GeneralQuiz	NRI Institute of Technology	I	2016
36	G.Karthik	Tech Trix	Dhanekula Institute of Engineering & Technology	II	2016
37	G.Karthik	Project Expo	Prasad V Potluri Siddhartha Institute of Technology	I	2016
38	Priyanka	Advanture Robo Competitions	Jawaharlal Nehru Technological University Kakinada	I	2016
39	Raja Harsha	Advanture Robo Competitions	Jawaharlal Nehru Technological University Kakinada	I	2016
40	Y.Omkar Venu Gopal	Advanture Robo Competitions	Jawaharlal Nehru Technological University Kakinada	I	2016
41	Y.Omkar Venu Gopal	Circuitrix	Jawaharlal Nehru Technological University Kakinada	II	2016

NAAC - SELF STUDY REPORT

42	Ajay	Advanture Robo Competitions	Jawaharlal Nehru Technological University Kakinada	I	2016
43	R.Venkatesh	Advanture Robo Competitions	Jawaharlal Nehru Technological University Kakinada	I	2016
44	V.Mahesh	Circuitrix	Jawaharlal Nehru Technological University Kakinada	II	2016
45	V. Mahesh	Adventure Robot Competitions	Jawaharlal Nehru Technological University Kakinada	I	2016
46	R. V.Kalyan Varma	Adventure Robot Competitions	Jawaharlal Nehru Technological University Kakinada	I	2016
47	S.J.Kiran Teja	Adventure Robot Competitions	Jawaharlal Nehru Technological University Kakinada	I	2016
48	Sk.Ameer Sohal	Project Expo	Velagapudi Ramakrishna Siddhartha Engineering College	I	2016
49	R.Vasudev Kalyan Varma	ROBO-ZEST 2015	Indian Institutes of Technology Delhi	I	2015
50	Sk.P.MastanVali	ROBO-ZEST	Indian Institutes	I	2015

NAAC - SELF STUDY REPORT

		2015	of Technology Delhi		
51	K.Jitendra Datta	Robo Race	Jawaharlal Nehru Technological University Kakinada	I	2015
52	K.Jithendra Datta	Circuit Mania	Sri Sarathi Institute of Engineering & Technology	I	2014
53	G.Aparna	Circuit Mania	Sri Sarathi Institute of Engineering & Technology	II	2014
54	B.Sai Krishna	Circuit Designing and Debugging	Dhanekula Institute of Engineering & Technology	II	2014
55	B.Sundari	PPT	Potti Sriramulu Chalavadi Mallikarjuna Rao College of Engg College	II	2014
56	K.Jitendra Datta	Project Expo	SRK Institute of Technology	I	2014
57	Sk.Prasanna	PPT	Velagapudi Ramakrishna Siddhartha Engineering College	II	2013
58	N.N.S.Roopa	Robo Arena	Gudlalleru Engineering College	I	2013

NAAC - SELF STUDY REPORT

59	V.Sai Krishna	Robo Arena Race	Gudlavalleru Engineering College	I	2013
60	V.Sai Krishna	Project Expo	Prasad V Potluri Siddhartha Institute of Technology	Special	2012

Sports:

Awards in Sports :-

NIL

The following are the student participated in national level competitions

S.No	Year	Name of The Student	Event	Name of the Host Institution
1	2016-17	M.S.P.V.Niranjan	Archery	Krishna University, Machilipatnam
2	2016-17	G.Radhika	Hand Ball	Periyar University
3	2016-17	K.Naga Babu	Hand Ball	Periyar University
4	2016-17	B.Sai Kimar	Soft Ball	Mahatma Gandhi University, Kottayam, Kerala
5	2016-17	B.Lakshmi Kanth	Hand Ball	Periyar University
6	2015-16	M.S.P.V.Niranjan	Archery	Punjab University, Patiyala
7	2014-15	B.Lakshmi Kanth	Volley Ball	Gudlavalleru Engineering College
8	2013-14	G.Hruday Bhanu Reddy	Handball	Bharathidasan University, Tiruchirapalli.

NAAC - SELF STUDY REPORT

9	2012-13	K.Radha Krishna	Basket Ball	Gudlavalleru Engineering College
10	2011-12	M.Kiran Mounika	Swimming	University of Calcutta, Kolkatta
11	2011-12	P.Bhargavi	Swimming	University of Calcutta, Kolkatta
12	2010-11	M.Kiran Mounika	Swimming	University of Calcutta, Kolkatta

24. List of eminent academicians and scientists/ visitors to the department:

S.No	Name	Designation	Place	Purpose	Details
1	Dr.M.KamaRaju	HOD,ECE, IETE Chairman, Vijayawada	Gudlavalleru Engineering College	Guest Lecture	Guest Lecture on “Advances in VLSI Design” & Challenges”
				Student Interaction Program	Inaugural of IETE Student Forum
				Faculty Interaction Program	Scope in different areas of research in Low Power VLSI
2	Dr.Madhumati	HOD, ECE	Dhanekula Institute of Engineering & Technology	Judge for Projects	For B.Tech
3	Dr.N.S.Murthy	HOD, ECE	National Institute of Technology Warangal	Guest Lecture	Implementation of new programming concepts in DSP-VLSI Architecture
4	S.Manoj	Senior	Pantech	Workshop	Low Power

NAAC - SELF STUDY REPORT

		Project Engineer	Pro-Ed,Pvt Ltd, Chennai		VLSI using Tanner,EDA
7	Mr.U. Kumar	Project Engineer	Silicon Touch Technologies	Workshop	Three Day Workshop On “PCB Design”
8	R.Ravi Kumar	Program Manager	Tech-Mahindra Pvt Ltd, Hyd	Interaction With Students	Fresher’s Recruitment by Industry
9	Mohammed Naheed	Lead Campus Relations Officer	Classle Pvt Ltd, Chennai	Conference	NPTEL Courses utilization
10	Dr. T. V. Rao	HOD, ECE IETE Chairman, Vijayawada	Sir C.R.Reddy College of Engineering, Eluru	Chief Guest	Engineer’s Day
11	Mr.Govind Rao	Director	Microlink, Vijayawada	Workshop	Three Day Workshop On “Embedded Systems”
12	Anurag Thwvari	Research Associate	NRI Institute of Technology	International Workshop	Workshop on Humanoid Botics
13	M.L.Sai Kumar	Retired Director	NRI Institute of Technology	One day Seminar	Employability & Team Building Skills
14	Dr. Habibullah Khan	Professor	KL University	Judge	For Paper Presentation, Poster and Projects
15	Dr. G.Vijaya Lakshmi	Professor	Worked in JKC	Workshop	Male Violence Against Women
16	MS. Vidya Khanna	Philanthropist	Worked in Jana Sikshana Samstha	Workshop	Development of Entrepreneurship Skills in

NAAC - SELF STUDY REPORT

					Women
--	--	--	--	--	-------

25. Seminars/ Conferences/Workshops organized & the source of funding

S.No.	Date	Seminar/Conference/Workshop	Source of Funding	Resource Person
1	8/3/2017	A One Day Workshop on “Development of Entrepreneurship Skills in Women”	Management	Dr. G.Vijaya Lakshmi & MS. Vidya Khanna
2	19/02/2017	Tech Fest	Management	Dr. Habibulla Khan
3	23/01/2017	40 hours Course on ANSYS HFSS & MAT LAB	Self Financed	ARK Info Solutions Professionals
4	21/09/2016	Three Day Workshop On “Embedded Systems”	Self Financed	Mr. Govind Rao, Director , Microlink
5	06/09/2016	A Two Day Workshop on “Web Designing”	Self Financed	UDYOG
6	7/7/2016	Three Day Workshop On “PCB Design”	Self Financed	Mr. U. Kumar
7	12/8/2015	Two Day Workshop On Low Power VISI using Tanner EDA	Self Financed	Mr. S. Manoj & T. Sundar
8	7/2/2015	International Workshop On Humanoid Duties	Management	Mr. Anurag Thivari
9	5/7/2014	Guest Lecture on Trends in VLSI Design and DSP-VLSI Architectures	Management	Dr. N.S.Murthy, Professor, ECE Dept, NIT Warangal
10	29/06/2013	Faculty Interaction Programme	Management	Dr. M. Kama Raju, Prof & HOD ECE, GEC Gudlavalleru
11	29/06/2013	Inaugural of IETE Student Forum	Management	Dr. M. Kama Raju, Prof & HOD ECE, GEC Gudlavalleru.
12	1/3/2013	A 2-Day Workshop on VHDL	Management	MCN Technology
13	8/10/2012	Robotryst-2013	Management	Mr. Uma Shankar Yadav and
14	24-02-2012	ONE DAY WORK SHOP ON VLSI & EMBEDDED SYSTEMS	Management	Prof. M.B.SRINIVAS, Dean Academics

26. Students profile programme/course wise:

NAAC - SELF STUDY REPORT

Year	Name of the Course/ Programme	Seats Available	Seats Filled	Enrolled		Pass Percentage %
				M	F	
2008-2012	B.Tech	60	60	43	17	88.52
2009-2013	B.Tech	120	120	79	41	82.81
2010-2014	B.Tech	120	120	70	50	81.16
2011-2015	B.Tech	120	120	72	48	73.19
2012-2016	B.Tech	120	120	56	64	87.32

27. Diversity of Students

Name of the Course/Program	% of the students from the same state	% of the students of the other state	% of students of other abroad
B.Tech (ECE)	100	0	0
M.Tech (DECS)	100	0	0

28. How many students have cleared national and state competitive examinations such * as NET, SLET, GATE, PGECET, Civil services, Defense services, etc

GATE	9
PGCET	1

29. Student progression:

Student progression	2015-16	2014-15	2013-14	2012-13
UG to PG	5	5	3	2
PG to M. Phil. -	---	---	---	---
PG to Ph.D. -	---	---	---	---

NAAC - SELF STUDY REPORT

Ph.D. to Post-Doctoral	---	---	---	---
Employed	87	90	72	34
1.Campus selection				
2.Other than campus recruitment	10	7	4	2
Entrepreneurship/Self-employment	NA	NA	NA	NA
	NA	NA	NA	NA

30. Details of Infrastructural facilities

Library

a) Library

Plinth Area

No of Volumes

b) Internet facilities for Staff & Students

Wi-Fi enabled campus with internet facility of 20Mbps

c) Class rooms with ICT facility

ICT facility class rooms

S.No	Infrastructure	No. of Rooms	Facilities
1	No. of Class Rooms	9	Air conditioned class rooms, seminar halls, Tutorial rooms, LCD Projectors, live class rooms, Broadcasted from NIT & IIT's, State of art advanced laboratories.
2	No. of Tutorial Rooms	4	
3	Seminar Hall	1	

d) Laboratories:

S.No	Name of the Laboratory	Area	Exclusive/shared	Quality of laboratory instruments
1	Electronic Devices and Circuits Lab	100 Sq.mt	Sharing	Good
2	Electronic Circuit Analysis Lab	100 Sq.mt	Exclusive	Good
3	Pulse & Digital Circuits Lab	100 Sq.mt	Exclusive	Good

NAAC - SELF STUDY REPORT

4	LIC Applications Lab	100 Sq.mt	Sharing	Good
5	Analog & Digital Communications lab	119 Sq.mt	Exclusive	Good
6	Micro Wave & Optical Communication lab	119 Sq.mt	Exclusive	Good
7	Microprocessor & Micro controllers lab(hardware)	66 Sq.mt	Sharing	Good
8	Digital system Design &DICA lab (software)	100 Sq.mt	Exclusive	Good
9	Advanced Digital signal processing lab(DASP/DSP)	100 Sq.mt	Exclusive	Good

31. Number of students receiving financial assistance from college, university, government or other agencies:

S.NO	Category	No Of Students Received Financial Assistance			
		2015-16	2014-15	2013-14	2012-13
1	SC	61	58	55	61
2	ST	7	01	4	7
3	BC	132	171	151	132
4	EBC	91	180	144	91
5	Muslim Minority	4	20	14	4
6	Gate	---	---	---	----
7	College Assistance	3	21	14	3
	Total	298	451	382	298

32. Details of student enrichment programmes (special lectures / workshops / seminar) with external experts:

NAAC - SELF STUDY REPORT

S.No	Academic Year	Date	Name of the Topic	Organized by	Objective
1	2016-17	23/01/2017	40 hours Course on ANSYS HFSS	ECE Dept	Programming concepts in ANSYS HFSS
2	2016-17	23/01/2017	40 hours Course on MAT LAB	ECE Dept	Programming concepts in MAT LAB
3	2016-17	21/09/2016	Three Day Workshop On "Embedded Systems"	ECE Dept	To provide knowledge and skill to appreciate rapid changing scenario in Embedded Systems
4	2016-17	06/09/2016	A Two Day Workshop on "Web Designing"	ECE Dept	Basic Introduction in Java & HTML. Design of Web page
5	2016-17	7/7/2016	Three Day Workshop On "PCB Design"	ECE Dept	To learn PCB design and implement for ckts
6	2014-15	12/8/2015	Two Day Workshop On Low Power VLSI using Tanner EDA	ECE Dept	Software provides complete integrated analog design flow that is Flexible and easy to use
7	2014-15	7/2/2015	International Workshop On Humanoid Duties	ECE Dept	Multi Disciplinary concept with human computer organization, Activities on Robotics and Design

NAAC - SELF STUDY REPORT

8	2013-14	26/06/2013	Faculty Interaction Programme	ECE Dept	Scope in different areas of research
9	2013-14	26/06/13	Guest Lecture on “Advances in VLSI Design & Challenges”	ECE Dept	Future Challenges to met in designing low power high performance circuits
10	2013-14	29/06/2013	Inaugural of IETE Student Forum	ECE Dept	Inaugural of IETE Student Forum

33. Teaching methods adopted to improve student learning:

- Tutorial sessions
- Remedial Classes
- Group discussions
- Assignments
- Project Based Training Programs.
- National Program Technology Enhanced Learning Video Lectures
- Seminars
- Animations
- web information
- JNTUK Co-erd
- Software demo, Hardware demo
- Industrial visits
- Enrichment Program, Campus Placements
- Language Improvement Support

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

The Department in co-ordination with NSS NRI conducted the following events.

- **Swatch Bharath program**
 - Maintenance of classroom's & teaching aids.
 - Cleaning of official Premises
 - Cleaning of Common Places
 - Disposal of Garbage, bins
 - Cleaning of canteen
- **Janma bhoomi program**
 - Cleaning of water bodies in our college [drinking water plants]
 - Gardening
 - NSS NRI, along with the students including all years of engineering, organized a plantation drive in the campus planting about 200 saplings on the same day.
- **Blood donation program**
 - Blood donation camps will be organized every year in college with the association of Lion's Club of India, Vijayawada
- **Flood relief fund program**
 - A special drive to help the Hud-Hud Flood victims, where the collected material was sent to the victims with help of an NGO
 - Cloths, toys, books, medicines and other items of use are collected and sent to the victims through NGO.
- **CM relief fund program**
- **Adoption of School**
 - Funding was provided for repairs in Primary school at Kanasanapalli.

NAAC - SELF STUDY REPORT

- Games were conducted in the school & prizes were distributed.
- Importance of Yoga was discussed in the school and they are prepared to practice.
- Stationary Donation.
- Book Donation.
- Vidhyadaan

Fire-Fighting Camp:

- NSS NRI has organized a Fire Fighting demonstration and discussed the actions to take when a fire is discovered.
- The Three A's (Activate, Assist, Attempt)
- When to use a fire extinguisher?
- How to use a fire extinguisher.... P.A.S.S. (Pull, Aim, Squeeze, Sweep)

Medical camp:

- Medical Camp has been organized in a slum nearby.
- People from all age groups utilized the opportunity and expressed their happiness.
- Economically poor people were supplied with free medicines.
- Brought awareness about benefits on “medical well being” & “Healthy surroundings”.

35. SWOC analysis of the department and Future plans:

NAAC - SELF STUDY REPORT

STRENGTHS:

- Regularity and symphony in attendance among faculty and students.
- State of the Art Information & Communication Technology tools for encouraging better classroom engagement through seamless internet connectivity through Wi-Fi across the campus.
- Experienced, committed faculty with good teaming up skills & 100% ratified by the university (JNTUK).
- Active participation of Students and Faculty in guest lectures, workshops, seminars , research activities
- Well equipped laboratories
- Eminent professors/Scientists from reputed institutions/ organisations are associated with the department.

WEAKNESS:

- Curriculum not in sync with contemporary needs as syllabus is University-prescribed.
- Inadequate Interdisciplinary projects.
- Not as much of Industry- Institute Interaction
- Located in Rural hence Reaching is a time taking effort
- Consultancy needs to be strengthened.

DEPARTMENT ADVISORY COMMITTEE:

S.No	Name	Designation	Position in the Committee
1	Prof. R. Sunitha	HOD, ECE	Chair Man DAC
2	Dr. K. Sri Ramakrishna	Prof & HOD ECE, VRSEC, VJA	Academic Member
3	Dr. B.T.P. Madhav	Prof. ECE, K. L. University, VJA	Academic Member
4	B. V. Subba Rao	Manager, RADAR-II /ISRO/SDSC/SHAR/ Srihari kota	Industrial Member
5	N. Pavan Kumar	Manager/ ARK Info Solutions, Banglore	Industrial Member

NAAC - SELF STUDY REPORT

OPPORTUNITIES:

- Close Interaction with Company for better collaboration and consultancy & Placement
- Young and talented faculty. More advantage for research and innovative practices.
- Orientation and faculty development programs for new faculty
- Applying for DST- FIST, UGC funds for enhancing the laboratories and projects
- Introduction of certificate courses & diploma courses to achieve skill development in students.
- Participation of students in extracurricular activities Internships and extracurricular activities
- Senior faculty having good contacts with eminent personalities from various educational industrial organisations.
- Brand Name of the institution for attracting students with good ranks to the institution.
- Opportunity for getting NBA and NAAC
- Establishment for center for excellence

CHALLENGES:

- Enhancing lab facilities to meet the requirements of quality research
- Making in-house interdisciplinary projects that reaches needs of the industries
- Conduction of International and National seminar, Conference every year.
- Motivating Students for the Publications and becoming entrepreneur.
- Increasing industry and institute interaction by calling professionals.

FUTURE PLANS:

- Interaction Industries

NAAC - SELF STUDY REPORT

- To introduce new Inter disciplinary and demand driven PG Specializations in the Department.
- To increase more number of publications from Staff and Students.
- Making UG and PG Students to publish at least one paper in Scopus Indexed journals during their study.
- To upgrade Department as research center and to become center for excellence in near future
- Applying for funded projects from various Organizations and reputed educational institutions
- To have Memorandum Of Understanding with various Organizations and Educational Institutions.
- Conduct more Guest lectures, Workshops, Seminars and Industrial visit at least once in a year .

NAAC - SELF STUDY REPORT

Evaluative Report of CSE Department

1. Name of the department: Computer Science and Engineering
2. Year of Establishment : 2008
3. Names of Programmes / Courses offered:

Sl.no	Name of the Programme	UG/PG	Year of Establishment
1	B.Tech./CSE	UG	2008
2	M.Tech./CSE	PG	2012

4. Names of Interdisciplinary courses and the departments/units involved:

Sl.No	Course	Department
1	English – I & II	Science & Humanities Department
2	Mathematics – I, II, & III	
3	Engineering Chemistry Theory & Laboratory	
4	Engineering Physics Theory & laboratory	
5	Professional Ethics and Human Values	
6	English - Communication Skills Lab – I & II	
7	IPR & Patents	
8	Environmental studies	
9	Mathematical Foundations of Computer Science	
10	Managerial Economics and Financial Analysis	
11	Probability & Statistics	
12	Engineering Mechanics	Mechanical Engineering Department
13	Engineering Drawing	
14	Engineering Workshop	

NAAC - SELF STUDY REPORT

15	Digital Logic Design	Electronics and Communication Engineering Department
16	Data Communication	

5. Annual/ semester/choice based credit system (programme wise):

Sl.No	Course	Annual/ semester/choice based elective system
1	B.Tech.	Semester and choice based elective system
2	M.Tech.	Semester and choice based elective system

6. Participation of the department in the courses offered by other departments:

Sl. No	Course	Department	Credits	Periods T/lab.
1	C Programming	Civil Engineering Department	4	5
2	C Programming	Electrical and Electronic Engineering Department	4	5
3	C Programming	Mechanical Engineering Department	4	5
4	C Programming	Electronics and Communication Engineering Department	4	5
5	C Programming Lab	Civil Engineering Department	2	3
6	C Programming Lab	Electrical and Electronic Engineering Department	2	3
7	C Programming Lab	Mechanical Engineering Department	2	3
8	C Programming Lab	Electronics and Communication Engineering Department	2	3
9	Data Structures	Electronics and Communication Engineering Department	4	5
10	Computer Architecture & Organization	Electronics and Communication Engineering Department	4	5
11	Java Programming	Electrical and Electronic Engineering Department	4	5

NAAC - SELF STUDY REPORT

12	Computer Networks	Electronics and Communication Engineering Department	4	5
13	Interactive Computer Graphics	Mechanical Engineering Department	4	5

7. Courses in collaboration with other universities, industries, foreign institutions, etc.: -Nil-

➤ **Certification courses in collaboration with other universities, industries, foreign institutions, etc..**

Sl.No	Name of the Courses	Industry/Company
1	Fundamentals of the java programming ,Language, java SE 6, 1.1 English Student kit	M/s. Oracle University
2	Java Programming Language, java SE 6, 1.1	
3	Oracle Database 11g Program with PL/SQL 2.0	
4	Web Component development with Servlets and JSPs,Java	
5	Java SE 7 Programming	
6	Microsoft Technology and Associate Training(MTA)	Microsoft Ed-Vantage Programme
7	Courses on Android, Java	Andhra Pradesh State Skill Development
8	Data Warehousing and Data Mining	Massive Open Online Courses(MOOCs)
9	Mobile Computing	

8. Details of courses/ programmes discontinued (if any) with reasons :
Nil.

9. Number of Teaching posts:

NAAC - SELF STUDY REPORT

	Sanctioned (As Per AICTE)			Filled		
	UG	PG	TOTAL	UG	PG	TOTAL
Professors	3	1	4	1	1	2
Associate	6	1	7	6	0	6
Assistant	18	4	22	28	5	33

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt.

/Ph.D. / M. Phil. etc.):

Sl. No	Faculty Name	Qualification	Designation	Specialization Area	No. of Exp. In Years
1	Dr. K. V. Sambasiva Rao	M.Tech., Ph.D.	Professor	Decision Support Systems	28
2	Dr. V. Suryanarayana	M.Tech., Ph.D.	Professor	Software Engineering	23
3	Mr.B.Mouleswara Rao	M.Tech. (Ph.D.)	Associate Professor	Data Mining	16
4	Mr. B. B. K. Prasad	M.Tech. (Ph.D.)	Associate Professor	Big Data	12
5	Mr. K. Vamsi Krishna	M.Tech. (Ph.D.)	Associate Professor	Cloud Computing	07
6	Mr. Ch. Surya Kiran	M.Tech. (Ph.D.)	Associate Professor	Software Reliability	09
7	Mrs. D. Suneetha	M.Tech. (Ph.D.)	Associate Professor	Cloud Computing	09
8	Mr. G. Karunakar	M.Tech.	Associate Professor	Computer Science & Engg.	08
9	Mr. SK. Mahaboob	M.Tech.	Assistant	Data Mining.	15

NAAC - SELF STUDY REPORT

	Basha	(Ph.D.)	Professor		
10	Mrs. M. Aruna Safali	M.Tech. (Ph.D.)	Assistant Professor	Big Data	07
11	Mrs. J. Praveena	M.Tech.	Assistant Professor	Computer Science & Engg.	10
12	Mr.P.Surendhra Varma	M.Tech.	Assistant Professor	Computer Science & Engg.	4
13	Mr. E. Karunakar	M.Tech.	Assistant Professor	Computer Science & Engg.	09
14	Mr. P. Raghuv eer	M.Tech.	Assistant Professor	Computer Science & Engg.	07
15	Mr. A. Hari Krishna	M.Tech.	Assistant Professor	Software Engineering	01
16	Mr. P. Narendra Babu	M.Tech.	Assistant Professor	Computer Science & Engg.	09
17	Mr. B. Dasaradha Ram	M.Tech. (Ph.D.)	Assistant Professor	Network Security	07
18	Ms. K. Radha	M.Tech.	Assistant Professor	Computer Networks	05
19	Mr. K. Mahendranath	M.Tech.	Assistant Professor	Computer Science & Engg.	02
20	Mrs. M. Seshu Bhavani	M.Tech.	Assistant Professor	Computer Networks	08
21	Mrs. P. Venkata Anusha	M.Tech. (Ph.D.)	Assistant Professor	Data Mining	04
22	Mr.P.Rajesh	M.Tech.	Assistant Professor	Computer Science & Engg	07
23	Mr. M V P Uma Maheswara Rao	M.Tech.	Assistant Professor	Computer Science & Engg.	07
24	Mrs. S. Sivaleela	M.Tech.	Assistant Professor	Computer Science & Engg.	07
25	Mrs. T. Radhika	M.Tech.	Assistant Professor	Computer Science & Engg.	05
26	Ms. Md. Arsha Sultana	M.Tech.	Assistant Professor	Computer Science & Engg.	00
27	Mrs. T. Saadiya	M.Tech.	Assistant Professor	Computer Science & Engg.	03
28	Ms. P. Sai Geetha	M.Tech.	Assistant Professor	Computer Science & Engg.	00

NAAC - SELF STUDY REPORT

29	Ms. Y. Kalyani	M.Tech.	Assistant Professor	Computer Science & Engg.	00
30	Mrs. B Naga Chandrika	M.Tech.	Assistant Professor	Computer Science & Engg.	01
31	Mrs. K.N.V.K. Durga Devi	M.Tech.	Assistant Professor	Computer Science & Engg.	03
32	Mr. Dudla Anil Kumar	M.Tech.	Assistant Professor	Computer Science & Engg.	6
33	Mr. Raja Bhargava	M.Tech.	Assistant Professor	Computer Science & Engg.	3
34	Mr. K. Dilli Babu	M.Tech.	Assistant Professor	Computer Science & Engg.	5
35	Mr. M. Ramakrishnam Raju	M.Tech.	Assistant Professor	Computer Science & Engg.	5
36	Ms. Priyanka Kanaparthi	M.Tech.	Assistant Professor	Computer Science & Engg.	3
37	Ms. Devarakonda Uma	M.Tech.	Assistant Professor	Computer Science & Engg.	0
38	Mr. Venendra Gottipati	M.Tech.	Assistant Professor	Computer Science & Engg.	3
39	Mrs. S.Anusha	M.Tech.	Assistant Professor	Computer Science & Engg.	2
40	Mr. Kotturi Naga Bhushanam	M.Tech.	Assistant Professor	Computer Science & Engg.	2
41	Mr. Nagaraju Borugadda	M.Tech.	Assistant Professor	Computer Science & Engg.	8
42	Mr. B. Bala Krishna	M.Tech.	Assistant Professor	Computer Science & Engg.	2

11. List of senior visiting faculty: Nil.

12. Percentage of lectures delivered and practical classes handled (programme wise) By temporary faculty: Nil.

13. Student -Teacher Ratio (programme wise):

- **B.Tech:** 15: 1
- **M.Tech:**12:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and Filled:

NAAC - SELF STUDY REPORT

Support Staff	Sanctioned	Filled
Technical staff	04	04
Administrative Staff	02	02

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG:

Sl.No	No. of Faculty With Ph.D	No. of Faculty With PG (M.Tech)
1	2	40

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Nil.

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received: -Nil-

- The CSE department received conference grant from DST as per the following details.

Sl.No	Name Of Faculty	Project Description	Funding Agency	Status of grant received
1	Dr.K.V.Sambasiva Rao	To conduct a two day national conference on next generation computing on 23 rd – 24 th December,2016	DST	Amount Sanctioned Rs.1,00,000

18. Research Centre /facility recognized by the University: NO

Though department is not officially recognized as a research center, but some of our faculty are recognized as supervisors by different universities. College is providing facilities for the supervisors and their research scholars to pursue their research. Following is the list of the research scholars and their supervisors.

NAAC - SELF STUDY REPORT

Sl.No	Name Of Supervisor	Name Of the Scholar	University	Degree	Area
1	Dr.K.V.Sambasiva Rao	Ms.K.S.Vijaya Lakshmi	JNTUK,Kakinada.	Ph.D	CSE
2	Dr.K.V.Sambasiva Rao	Mr.B.Jayana g	Acharaya Nagarajuna University, Vijayawada.	Ph.D	CSE
3	Dr.K.V.Sambasiva Rao	Ms.M.Rani.	Dravidin University,Kuppa m.	Ph.D	CSE
4	Dr.K.V.Sambasiva Rao	Mr.S.Ravi kiran	JNTUK,Kakinada.	Ph.D	CSE

19. Publications:

a) Publications per faculty

Sl. No	Faculty Name	National Journal	International Journal	National Conference	International Conference	Impact Factor
1	Dr. K. V. Sambasiva Rao	9	17	20	8	4.2
2	Dr. V. Suryanarayana	5	7	3	3	3.8
3	Mr.B.Mouleshwara Rao	1	3	1	1	3.5
4	Mr. B. B. K. Prasad	0	3	0	0	3.7
5	Mr. K. Vamsi Krishna	0	3	1	1	3.7
6	Mr. Ch. Surya Kiran	1	5	3	3	3.7
7	Mrs. D. Suneetha	0	7	1	0	3.7
8	Mr. G. Karunakar	0	3	0	0	3.5
9	Mr. SK. Mahaboob Basha	0	3	0	0	3.7
10	Mrs. M. Aruna Safali	0	7	2	0	3.7
11	Mrs. J. Praveena	0	4	1	0	3.5
12	Mr.P.Surendhra Varma	0	1	0	0	3.5
13	Mr. E. Karunakar	0	2	0	0	3.7
14	Mr. P. Raghuv eer	0	1	0	0	3.5

NAAC - SELF STUDY REPORT

15	Mr. A. Hari Krishna	0	0	0	0	Nil
16	Mr. P. Narendra Babu	5	2	2	0	3.7
17	Mr. B. Dasaradha Ram	0	4	0	0	3.8
18	Ms. K. Radha	0	1	0	0	3.5
19	Mr. K. Mahendranath Chowdary	0	1	0	0	3.5
20	Mrs. M. Seshu Bhavani	0	1	0	0	3.5
21	Mrs. P. Venkata Anusha	0	5	1	0	3.7
22	Mr.P.Rajesh	0	0	0	0	Nil
23	Mr. M V P Uma Maheswara Rao	0	3	1	0	3.7
24	Mrs. S. Sivaleela	0	2	0	0	3.5
25	Mrs. T. Radhika	0	1	0	0	3.5
26	Ms. Md. Arsha Sultana	0	1	0	0	3.5
27	Mrs. T. Saadiya	0	1	0	0	3.5
28	Ms. P. Sai Geetha	0	1	0	0	3.5
29	Ms. Y. Kalyani	0	0	0	0	Nil
30	Mrs. B Naga Chandrika	0	1	0	0	3.5
31	Mrs. K.N.V.K. Durga Devi	0	1	0	0	3.5
32	Mr. Dudla Anil Kumar	0	0	0	0	3.5
33	Mr. Raja Bhargava	0	0	0	0	3.5
34	Mr. K. Dilli Babu	0	0	0	0	3.5
35	Mr. M. Ramakrishnam Raju	0	0	0	0	3.5
36	Ms. Priyanka Kanaparthy	0	0	0	0	3.5
37	Ms. Devarakonda Uma	0	0	0	0	3.5
38	Mr. Venendra Gottipati	0	0	0	0	3.5
39	Mrs. S.Anusha	0	0	0	0	Nil

NAAC - SELF STUDY REPORT

40	Mr. Kotturi Naga Bhushanam	0	0	0	0	3.5
41	Mr. Nagaraju Borugadda	0	0	0	0	3.5
42	Mr. B. Bala Krishna	0	0	0	0	Nil
Average Impact Factor						2.33

b) Number of papers published in peer reviewed journals (National /International) by faculty and students: 112.

c) Number of publications listed in International Databases: Nil.

d) Monographs: Nil.

e) Chapter in Books: Nil.

f) Book Edited: Nil.

g) Book with ISBN/ISSN numbers with details of publishers: 01

h) Citation Index:

i) SNIP: Nil.

j) SJR: Nil.

k) Impact factor: 3.16

l) h- Index:

k) Laboratory Manuals:17

20.Areas of consultancy and income generated:

Sl.No	Type of Consultancy Provided	Company Name	Income generated	
			2015-16	2016-17
1	Conducting Online Examinations	TCS-ION	35,00,000	32,00,000

21.Faculty as members in a) National Committees: No

b) International Committees: No

c) Editorial Boards: No

22.Student projects

a) Percentage of students who have done in-house projects including inter departmental/programme

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies

NAAC - SELF STUDY REPORT

Year	Total No Of Students	No of Students who have done in house	In house%	No of Students who have done outside campus	Outside %
2015 – 2016	123	68	55.2	55	44.8
2014 – 2015	120	65	54.1	55	45.8
2013 – 2014	120	71	59.1	39	32.5
2012 – 2013	120	54	45	66	55

23.Awards / Recognitions received by faculty and students:

Faculty:

Sl.No	Name of the faculty	Award/Recognition	Awarded By	Year
1	Dr. K.V. Sambasiva Rao	WHO IS WHO IN THE WORLD	Marqui's International, New Jersey's	1998
2	Mr.B.Mouleswara Rao	Best Teacher	KLCollege of Engineering	2005
2	Dr. K.V. Sambasiva Rao	EMINENT EDUCATIONIST AWARD	Indus Foundation & FAPCCI, Govt. of	2013

Students Academics:

Sl.No	Name of the students	Award/Recognition	Awarded By	Year
1	K.Sai sree	Secured 2 nd Prize in Paper Presentation	V.R.Siddarta ha Engineering college.	2016

NAAC - SELF STUDY REPORT

2	Nanda Kishore	Secured 2 nd Prize in Code contest	VVIT.	2016
3	K.V.S.Sai Kalyan	Secured 1 st Prize in Designed a website	TechFest-16, National Level Technical Symposium conducted by Sir CR Reddy College of Engineering (Eluru)	2016
4	K.V.S.Sai Kalyan	Secured 1 st Prize for developing specified website modules	WebDesign event at TechFest-16, National Level Technical Symposium conducted by Sir CR Reddy College of Engineering (Eluru)	2016
5	K.V.S.Sai Kalyan	Secured 1 st Prize For presenting paper on Practical Approach to Artificial Intelligence	VR Siddhartha Engineering College	2016
6	K.V.S.Sai Kalyan	Secured 1 st Prize in Cracked programming contest	VVIT-Guntur on the occasion of Engineer's Day.	2016
7	K.Saketh,B.Vikram	Secured 1 st Prize in spot software contest,	NRIT on the occasion of Engineer's Day.	2016
8	B.L.Bharathi,A.Meghana	Secured 2 nd Prize in spot software contest	NRIT on the occasion	2016

NAAC - SELF STUDY REPORT

			of Engineer's Day.	
9	P.Anand,M.Saikrishna	Secured 3 rd Prize in spot software contest	NRIIT on the occasion of Engineer's Day.	2016
10	D.Harish,B.Pavan Kumar	Secured 1 st Prize in Paper presentation contest	NRIIT on the occasion of Engineer's Day.	2016
11	K.Bharat,K.Nagendra	Secured 2 nd Prize in Paper presentation contest	NRIIT on the occasion of Engineer's Day.	2016
12	D.K.Sanjana,K.Mehar Sri	Secured 3 rd Prize in Paper presentation contest	NRIIT on the occasion of Engineer's Day.	2016
13	K.V.S.Sai Kalyan	Secured 1 st Prize in C-Programming Contest event	LBRCE (Mylavaram) on National Level Technical Symposium, LAKSHYA-2K15	2015
14	K.V.S.Sai Kalyan	Secured 2 nd Prize in Cracked Technical quiz	TechFest-16, National Level Technical Symposium conducted by Sir CR Reddy College of Engineering (Eluru)	2015
15	M.Kavya	Secured 3 rd Prize in	LBRCE.	2015

NAAC - SELF STUDY REPORT

		CRUIZE competition		
16	M.Kavya	Secured 1 st Prize in web wizard competition	LBRCE.	2015
17	M.Kavya	Secured 2 nd Prize in TECHNICAL QUIZ	C.R.Reddy College of Engineering.	2015
18	K.Rohini, K.Jabeena Fathima	Secured 1 st Prize in Paper presentation	MIC College of Engineering.	2015
19	J.Naga Sai Hemanth	Secured 1 st Prize in Skill Adda Coding Through	Adda Online Competition	2015
20	M.Yaswanth Sai	Secured 1 st Prize in CRUIZE competition	LBRCE.	2015
21	K.V.S.Sai Kalyan	Secured 1 st Prize C-Programming Contest in National level Student Technical Symposium,	VALIANT conducted by Vishnu Institute of Technology (Bhimavaram).	2015
22	K.V.S.Sai Kalyan	Secured 1 st Prize in Cracked Spot-Software Contest	NRIT on the occasion of Engineer's Day	2015
23	K.V.S.Sai Kalyan	Secured 1 st Prize in Technical Quiz	NRIT on the occasion of Engineer's Day	2015
24	K.V.S.Sai Kalyan	Secured 1 st Prize in in Web-Wizards(Web Programming).	LBRCE(My lavaram) on National Level Technical Symposium, LAKSHYA-2K15	2015
25	N.Visawja, D.Renuka	Secured 2 nd Prize on Android Applications.	R.K College of Engineering.	2014

NAAC - SELF STUDY REPORT

26	K.Srujana	Secured 1 st Prize in Paper presentation	NRIIT.	2014
27	K.Rohini, K.Jabeena Fathima	Secured 1 st Prize in Paper presentation	Loyola Engineering College.	2014
28	K.Ramya durga	Secured 1 st Prize in Paper presentaion	NRIIT.	2014
29	J.Harish,	Secured 1 st Prize in QUIZ competition.	BAPATLA Engineering college	2014
30	K.Nagalakshmi	Secured 1 st Prize in QUIZ competition.	ANU College of Engineering	2014
31	Akhila	Secured 1 st Prize in Poster Presentation	NRI Institute of Technology.	2014
32	Mahathi	Secured 1 st Prize in QUIZ competition.	NRI Institute of Technology.	2014
33	K.Rohini,K.Jabeena Fathima	Secured 2 nd Prize in Paper presentation	NRIIT	2014
34	K.V.S.Sai Kalyan	Secured 1 st Prize in Paper presentation	NRIIT	2014
35	K.V.S.Sai Kalyan	Secured 3 rd Prize in Ad-making	Usha Rama College of Engineering	2014

Students Sports:

Sl.No	Name of the Student	Award/Recognition	Event	Year
1	D.Tejaswini	Participation Certificate	Handball tournament at Periyar, Salem,	2014-15
2	T.Ramya	Participation Certificate	Handball tournament at Periyar, Salem,	2014-15

NAAC - SELF STUDY REPORT

3	Ch. Greeshma Tinusha	Participation Certificate	Handball tournament at Periyar, Salem,	2014-15
4	A. Lakshmi Kanth	Participation Certificate	Handball tournament at Periyar, Salem,	2014-15
5	N.Dinesh	Appreciation Certificate	South Indian football at university of Kerala	2011-12

24. List of eminent academicians and scientists / visitors to the department:

Sl.No	Name of the Speaker	Topic	Date
1	Mr.D.Rama Krishna,MD,Efftronics systems,Pvt,Ltd.vijayawada	Next Generation Systems	23/12/2016
2	Capt.Dr.S.Santhosh Baboo,professor,DG Vaishnav college,Chennai	Cluster based segmentation methods for medical image	23/12/2016
3	Dr.B.V.Subba Rao,Professor,PVPSIT,Vijayawada	Prediction of crop intelligence attributes	23/12/2016
4	Mr.K.Dheeraj, Promoter ,Gurukul.	Significance of IOT & Artificial intelligence.	23/12/2016
5	Mrs.Layanaya,APSSDC.	Current Trends in IOT	23/12/2016
6	Mrs.Alekya,APSSDC.	Current Trends in IOT	23/12/2016
7	Mr.Veer Anjaneya Nagaraju,Big data minds	3 days Work shop on Hadoop and	12/9/2016 to 14/9/2016

NAAC - SELF STUDY REPORT

		Big data analytics	
8	Mr.Madhu Parvathaneni Entrepreneur / IoT Developer ORL Industries	3 days Work shop on IOT.	1/8/2016 to 3/8/2016
9	Mr.M.Ram Mohan,Cronux Technologies,Hyderabad	Seminar on SAP	2/4/16
10	Mr.Ch.Sai Sateesh.	Seminar on Malware Technology	4/3/2016 to 5/3/2016
11	Mr.Nivas,Team Campus Connect,Infosys.	Opportunities in present IT Industry	30/07/2016
12	Mr.Venkat Ramana Kuruhuri,Associate Vice President-HR.	Focus Insight Innovation	28/04/2015
13	Mr.Satya Thopalli,HR-Campus Recruitment.	Emerging Technologies	06/10/2014
14	Mr.Vijayan Srinivas,Zen3 Infosolutions(India)Limited.	Latest Trends in IT	22/11/2014
15	Mr.Durga Prasad,Recruitment HR,Mahindra Satyam	How to be best suited into IT	05/05/2011

25.Seminars/ Conferences/Workshops organized & the source of funding
a) National b) International

Sl.No	Seminars/Conferences/Workshops	Academic Year	Source of funding
1	National Conference on Next generation Computing.	2016-17	DST
2	Seminar on Graph Theory Applications	2016-17	Management
3	Seminar on Data Fusion In Big Data	2016-17	Management

NAAC - SELF STUDY REPORT

4	Seminar on Decision Support Systems	2016-17	Management
5	Seminar on Leadership Qualities	2016-17	Management
6	Seminar on Ethical Hacking.	2016-17	Management
7	Seminar on SAP.	2016-17	Management
8	Seminar on Malware Technology.	2016-17	Management
9	3 days Workshop on Hadoop and Big Data analytics.	2016-17	Management
10	3 days Workshop on IOT.	2016-17	Management
11	Faculty development program	2015-16	Management
12	Seminar on Industry Requirements	2015-16	Management
13	Seminar on Computer Applications	2015-16	Management
14	National Conference on Data Mining and emerging techniques.	2012-13	Management
15	Faculty development program on Teaching Methodologies.	2012-13	Management
16	Faculty development program on JAVA.	2012-13	Management

26. Student profile programme/course wise:

Sl.No	Programme / Course wise : B.Tech	Applications Received	Selected	Enrolled		Pass Percentage
				*M	*F	
1	2012-2016	120	123	41	82	82.93
2	2011-2015	144	115	58	59	76.52
3	2010-2014	144	119	60	59	83.19

*M = Male

*F = Female

Sl.No	Programme / Course wise : M.Tech	Applications Received	Selected	Enrolled		Pass Percentage
				*M	*F	

NAAC - SELF STUDY REPORT

1	2014-2016	29	27	8	19	74(20)
2	2013-2015	35	30	14	21	83.87(24)
3	2012-2014	18	17	9	8	15

*M = Male

*F = Female

27. Diversity of Students:

Name of the Programs	% of students from the same state	% of students from other States	% of students from abroad
B.Tech	100	NIL	NIL
M.Tech	100	NIL	NIL

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Year	GATE	GRE / GMAT	CAT	PGECET
2015-16	Nil	07	Nil	04

29. Student Progression

Providing the percentage of students progressing to higher education or employment (for the last four batches) highlight the observed trends.

Student progression	%			
	2012-2013	2013-2014	2014-2015	2015-2016
UG to PG	2.5	3.3	4.16	3.2
PG to M.Phil.	Nil	Nil	Nil	Nil
PG to Ph.D.	Nil	Nil	Nil	Nil
Employed <ul style="list-style-type: none"> • Campus selection(CS) • Other than campus recruitment(O) 	4.16(O)	56.6(CS)	40.8(CS)	54.4(CS)

NAAC - SELF STUDY REPORT

Entrepreneurship/Self-employment	-	-	-	-
----------------------------------	---	---	---	---

30. Details of Infrastructural facilities

a) Department Library: Plinth Area: 52 sq. mts.

No. of Titles	51
No. of Volumes	64

b) Internet facilities for Staff & Students: Yes

- Wi-fi enabled in Campus.
- Internet Speed of 10 Mbps 1:1
- BSNL Leased Line, 20 Mbps Broad Band unlimited.
- 15 Mbps Orange net are available.

c) Class rooms with ICT facility: Yes

Room Type	No. of Rooms	Facility Available
Lecture Rooms	10	LCD Projectors, Internet and Computer
Tutorial Rooms	03	
Seminar Hall	01	LCD Projectors, Internet and Computer, Audio System

d) Laboratories

Sl.No	Name Of Laboratory	Area in Sq.m	No. of Systems
1	C & Data Structures LAB	100 Sq.m	70
2	Operating Systems & Compiler Design LAB	100 Sq.m	70
3	UNIX LAB	100 Sq.m	75

NAAC - SELF STUDY REPORT

4	HADOOP LAB	100 Sq.m	60
---	------------	----------	----

31. Number of students receiving financial assistance from college, university, Government or other agencies

Category	2015-16	2014-15	2013-14	2012-13
Government –SC Corporation	34	30	37	36
Government –ST Corporation	2	2	2	1
Government –BC Corporation	128	115	104	100
Government –EBC Corporation	206	200	175	83
Government –Minority Corporation	28	33	31	33
others	0	03	0	0
Total	398	380	349	253

32. Details on student enrichment programmes (special lectures / workshops /Seminar) with external experts:

Sl.No	Name of the Speaker	Topic	Date
1	Mr.Veer Anjaneya Nagaraju,Big data minds	3 days Work shop on Hadoop and Big data analytics	12/9/2016 to 14/9/2016
2	Mr.Madhu Parvathaneni Entrepreneur / IoT Developer ORL Industries	3 days Work shop on IOT.	1/8/2016 to 3/8/2016
3	Mr.M.Ram Mohan,Cronux Technologies,Hyderabad	Seminar on SAP	2/4/16
4	Mr.Ch.Sai Sateesh.	Seminar on Malware Technology	4/3/2016 to 5/3/2016
5	Mr.Nivas,Team Campus	Opportunities in	30/07/2016

NAAC - SELF STUDY REPORT

	Connect,Infosys.	present IT Industry	
6	Mr.Venkat Ramana Kuruhuri,Associate Vice President-HR.	Focus Insight Innovation	28/04/2015
7	Mr.Satya Thopalli,HR-Campus Recruitment.	Emerging Technologies	06/10/2014
8	Mr.Vijayan Srinivas,Zen3 Infosolutions(India)Limited.	Latest Trends in IT	22/11/2014
9	Mr.Durga Prasad,Recruitment HR,Mahindra Satyam	How to be best suited into IT	05/05/2011

33. Teaching methods adopted to improve student learning

- Although the diverse styles with which students learn are numerous, the inclusion of small number of techniques is done to impart better knowledge to them.
- The students are provided with state of the art infrastructure, technology and equipment required to carry on the teaching process in a more synchronized manner.
- The teaching methods adopted are well in consonance with the industry needs and are updated on a regular basis.
- Hands on experience in the respective fields is provided to the students in the form of online training programs, collaborative training with IBM, TCs, field trips, national and international conferences and workshops, remedial and tutorial classes, training for campus placement and aptitude, English labs for effective communication, seminars by in-house faculty and guest speakers etc.
- The skills and knowledge of the teachers are upgraded regularly to make them well verse with the latest industry trends so that they can impart knowledge of latest trends and techniques to the students through Faculty development programmes.

NAAC - SELF STUDY REPORT

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Strengthening practical experience for students in universities is essential to move social responsibility from theoretical base to effective change.

ISR	Year's	Extension Activities	Year's
Relief fund during National Calamities like Uttaranchal flood	2013	Blood Donation Camp	2015,2016
Women awareness programme	2016	Blood Grouping Camp	2015,2016
Awareness about diseases and Precautions	2016	Educating slum children	2011,2012,2016
Organizing Medical Checkup Camps	2011,2012,2016	Sensitization of school children towards Basic Science	2011,2012,2016
Health and hygiene awareness Programme	2011,2012,2016		

- These activities are conducted by the Institution and the Department on regular basis and all the Students and Faculty of the Department participate in them.

35. SWOC analysis of the department and Future plans

Strengths:

- Availability of well qualified and experienced faculty.
- Well equipped laboratories with latest systems and required software.
- Decent results with good placements
- Good final year projects which resulted in to publication
- Well Disciplined students
- Many of the faculties have membership & association in professional societies.

Weaknesses:

- Insufficient funding
- Publications in journals should be improved
- Need to be improve entrepreneurship intelligence/opportunities.

Opportunities:

- Academic Autonomy and Functional Autonomy so as to cater the need of industries by continuously updating the curriculum and facilities with the changing demands of market. The institution should plan to become Deemed University, centre of excellence in near future.
- Allowing students to participate AP State's Skill Development Program to enhance technical skills to develop mobile apps
- Entrepreneurship Development Centre to cater to the need of entrepreneurs
- Projects with Industry Govt. Organizations leading to R & D centre with the Institute.
- To explore new horizons in research work/studies.
- To get accredited by NAAC & NBA.

Challenges:

- Less employment opportunities
- Lack of Academic Autonomy: Dependence upon traditional university curriculum.
- Privatization of Professional Education.

NAAC - SELF STUDY REPORT

EVALUATION REPORT DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

1. Name of the department: **Electrical & Electronics Engineering**
2. Year of Establishment: **2008**
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

S.no	Course	Specilization	Year of Establishment
1	UG - B.Tech	EEE	2008
2	PG - M.Tech	Power Electronics and Drives	2013

4. Names of Interdisciplinary courses and the departments/units involved:

S.no	Course	Department
1	Environmental Studies	S&H
2	IPR&Patents	
3	Management Studies	
4	Managerial Economics & Financial Analysis	
5	Thermal & Hydro Prime Movers	ME
6	Thermal & Hydro Prime Movers LAB	
7	Basci electronic devices & circuits	ECE
8	Pulse & Digital Circuits	
9	Linear & Digital IC Applications	
10	Switching Theory & Logic Design	
11	Micro Processors & Micro Controllers	
12	Basic Electronics & Devices Lab	

NAAC - SELF STUDY REPORT

13	Micro Processors & Micro Controllers Lab	
14	Computer Organization	CSE
15	Oops Through Java	
16	UNIX & Shell Programming	
17	Data Base & Management Sytem	

5. Annual/ semester/choice based credit system (programme wise) :

- **UG: B.Tech** – Electrical and Electronics Engineering – Semester Wise Credit System
- **PG: M.Tech** – Power Electronics and Drives – Semester Wise Credit System

6. Participation of the department in the courses offered by other departments:

S.no	Course	Departments Offered
1	Basic Electrical & Electronics Engineering	CE
2	Basic Electrical & Electronics Engineering	ME
3	Eeelctrical technology	ECE
4	Networks Analysis	ECE
5	Control systems	ECE
6	Basic Electrical Engineering lab	ME
7	Networks & Electrical Technology Lab	ECE

7. Courses in collaboration with other universities, industries, foreign institutions, etc. **APSSDC**

S.No.	Name of the Course	Collaboration with other Universities/Industries/Foreign Institutions
1	Campus Training Program	APSSDC

8. Details of courses/programmes discontinued (if any) with reasons : **NIL**

NAAC - SELF STUDY REPORT

9. Number of teaching posts

Post	Sanctioned	Filled
Professors	01	01
Associate Professors	02	02
Assistant Professors	13	13

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

S.No	Name	Qualification	Designation	Specilization	No. of Years of Experience
1	Dr.N.Sambasiva Rao	B.Tech,M.Tech, Ph.D.	Professor & HOD	Electrical Power Systems	15
2	R.Raghunadha Sastry	B.Tech,M.Tech	Associate Professor	PE & Power Systems	8
3	K. Venkata Kishore	B.Tech,M.Tech	Associate Professor	Power Electronics	8
4	S. Bhavani	B.Tech,M.Tech	Assistant Professor	Power Systems	7
5	I. Prasanna Kumar	B.Tech,M.Tech	Assistant Professor	Power Systems	5
6	B. Edukondalu	B.Tech,M.Tech	Assistant Professor	Power Electronics	4
7	MA. Salma	B.Tech,M.Tech	Assistant Professor	Power Systems	6
8	Ch. Sabitha	B.Tech,M.Tech	Assistant Professor	Power Electronics	5
9	M.Padma	B.Tech,M.Tech	Assistant Professor	Power & Industrial Drives	1.5
10	S.Ramyaka	B.Tech,M.Tech	Assistant Professor	Power Electronics & Drives	1

NAAC - SELF STUDY REPORT

11	Y.Lalitha Kameshwari	B.Tech,M.Tech	Assistant Professor	Power Electronics	1
12	Hemasundar	B.Tech,M.Tech	Assistant Professor	Power Electronics	6
13	Sravan sai kumar	B.Tech,M.Tech	Assistant Professor	Power System automation	4.5
14	G.Chakrapani	B.Tech,M.Tech	Assistant Professor	Power Electronics	1
15	J.Venkata jayakrishna	B.Tech,M.Tech	Assistant Professor	Power Electronics	1
16	V.Lalitha	B.Tech,M.Tech	Assistant Professor	Control systems	3 Months

11. List of senior visiting faculty: **NIL**

12. Percentage of lectures delivered and practical classes handled (Programme wise) by temporary faculty: **0%**

13. Student -Teacher Ratio (programme wise):

- UG: B.Tech(EEE) : **15:1**
- PG: M.Tech(PE&D) : **12:1**

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Post	Sanctioned	Filled
Administrative staff	01	01
Academic Support Staff	03	03

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG.:

NAAC - SELF STUDY REPORT

Highest Qualification	Professor	Associate Professor	Assistant Professor	Total
Ph.D	1	0	0	16
PG	0	2	13	

16. Number of faculty with ongoing projects from National, International funding agencies and grants received: **NIL**

17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received: **NIL**

18. Research Centre /facility recognized by the University; **NIL**

19. Publications: annexure -1 enclosed

a) Publication per faculty:

Number of papers published in peer reviewed journals (national / international) by faculty and students

S.No.	Name	Designation	Journals		Conferences		Avg. Impact Factor
			National	International	National	International	
1	Dr.N.Sambasiva Rao	Professor & HOD	0	19	3	5	3.415
2	R.Raghunadha Sastry	Associate Professor	0	1	4	0	1.5
3	K. Venkata Kishore	Associate Professor	0	3	3	0	1.3
4	S. Bhavani	Assistant Professor	0	3	0	0	1.2615
5	I. Prasanna Kumar	Assistant Professor	0	2	3	0	1.1
6	B. Edukondalu	Assistant Professor	0	1	0	0	0.98
7	MA. Salma	Assistant Professor	0	2	0	0	1.1
8	M. Tejaswini	Assistant Professor	0	2	0	0	1.16
9	M.Padma	Assistant Professor	0	1	0	0	0.98

NAAC - SELF STUDY REPORT

10	S.Ramyaka	Assistant Professor	0	1	0	0	0.98
11	Y.Lalitha Kameshwari	Assistant Professor	0	5	1	5	1.6
12	V.Lalitha	Assistant Professor	0	1	0	0	1.2615

- Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) **68**
- Monographs-**NIL**
- Chapter in Books-**NIL**
- Books Edited - **NIL**
- Books with ISBN/ISSN numbers with details of publishers –**NIL**

20. Areas of consultancy and income generated: **NIL**

21. Faculty as members in: a) National committees b) International Committees c) Editorial Board

S.No.	Name of the Staff	Designation	Name of the journal
1	Dr.N.Sambasiva Rao	Editorial Board Member	International Journal of Computer and Information Technology (IJCIT) ISSN: 2279-0764
			International Journal of Electronics and Electrical Engineering (IJEEE) ISSN: 2301-380X.
			International Journal of Electrical Energy (IJOEE) ISSN:2301-3656.
			International Journal of Engineering Research and Technology (IJERT) ISSN: 2278 – 0181.

NAAC - SELF STUDY REPORT

			International Journal Scientific Engineering Research(IJSER)
			International Journal of Technology, Management and Humanities(IJTMH)

22. Student projects:

- (a) Percentage of students who have done in-house projects including inter Departmental/programme **80%**.
- (b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies **20%**.

23. Awards/ Recognitions received by faculty and students:

S.No.	Name of the Faculty / Student	Award / Recognition	From	Year
1	Dr. N. Sambasiva rao	Best Teacher Award	JNTUK	2014-15
2	Dr. N. Sambasiva rao	Best Researcher Award	JNTUK	2014-15
3	K.Bindhu Maheshwari	First Prize	Vikas College	2011-12
4	Ch.Lakshmi Kumari	First Prize	Vikas College	2011-12
5	B.M.N.S Deepthi	Second Prize	Brahmaiah college of Engineering, Nellore	2011-12
6	CH.Dileep	Second Prize	Rotary Club of Vijayawada	2011-12
7	M.Krishna Kanth	Second Prize	Rotary Club	2011-12

NAAC - SELF STUDY REPORT

			of Vijayawada	
8	Nagendra Babu.G	Second Prize	Rotary Club of Vijayawada	2011-12
9	Kumar.K	Second Prize	Rotary Club of Vijayawada	2011-12
10	P.Praveen Kumar	Second Prize	Rotary Club of Vijayawada	2011-12
11	K.Kundana	Second Prize	Vijaya Womens College	2012-13
12	G.Spandana	Second Prize	Vijaya Womens College	2012-13
13	R.Pravallika	Second Prize	Sir C R R College	2012-13
14	K.Poornima	Second Prize	Sir C R R College	2012-13
15	B.Yamini Dvya	Second Prize	Sir C R R College	2012-13
16	B.Sai Sindhura	First Prize	Usha Rama College	2014-15
17	Y.H.H.L.Sai Krishna	First Prize	MVR College	2014-15
18	Y.H.H.L.Sai Krishna	First Prize	ANU College	2014-15

NAAC - SELF STUDY REPORT

19	Y.H.H.L.Sai Krishna	First Prize	Chalapathi Institute	2014-15
20	Y.H.H.L.Sai Krishna	First Prize	Sreenidhi Institute	2014-15
21	Y.H.H.L.Sai Krishna	First Prize	LBRCE	2014-15
22	Y.H.H.L.Sai Krishna	Second Prize	SRK College	2014-15
23	Y.H.H.L.Sai Krishna	Second Prize	LBRCE	2014-15
24	Y.H.H.L.Sai Krishna	Second Prize	SRK College	2014-15
25	Y.H.H.L.Sai Krishna	Second Prize	Dhanekula College	2014-15

24. List of eminent academicians and scientists/ visitors to the department:

- An Expert Lecture on “NON CONVENTIONAL ENERGY SOURCES” **Dr.Anumakonda Jagadeesh**, Director NAIUDAMMA CENTER for development alternatives on 24th october 2014.
- An Expert Lecture on “Advanced techniques in POWER ELECTRONICS AND DRIVES" by **Sri Nageswara Rao**, Assistant professor, JNTUK on 9th JULY 2015.
- An Expert Lecture on “RECENT TRENDS IN POWER SYSTEMS" by **Dr.R.Srinivasa Rao**, Professor in EEE, JNTUK on 5th January, 2016.
- An Expert Lecture on “RECENT TRENDS IN ELECTRICAL ENGINEERING” by **Dr.P.V.V.Rama Rao**, Professor and Head Sri Vishnu Engineering College For Women on July 2016.

25. Seminars/ Conferences/Workshops organized & the source of funding:

a)National

b)International

NAAC - SELF STUDY REPORT

S.No	Date	Event	Resource Person	Source of Funding
1	23-08-2013	Seminar on Advanced Power Systems	B.P Singh	NRIT
2	30/01/2014	Seminar on Renewable Energy Sources	Sri. Kamaraju	
3	08/08/2014	Seminar on Advanced Power Electronic Drives	Smt.Surya Kalavathi	
4	17/12/2015	Work shop on MATLAB/SIMULINK	V. Naresh	
5	15/04/2016	Work Shop on Supervisory Control	G.Vinod Kumar	

26. Student profile programme/course wise:

Batch	Name of the Course/ Programme	Seats Available	Seats Filled	Enrolled		Pass Percentage
				M	F	
2008-12	UG (EEE)	60	60	43	17	84.62
2009-13	UG (EEE)	60	60	42	18	92.19
2010-14	UG (EEE)	60	60	38	22	88.57
2011-15	UG (EEE)	60	60	42	18	76.12
2012-16	UG (EEE)	60	55	32	23	75
2013-15	PG(PED)	18	18	9	9	
2014-16	PG(PED)	18	17	12	5	

27. Diversity of Students:

NAAC - SELF STUDY REPORT

Admitted Batch	Name of Course / Programme	% of Students From the Same State	% of Students From other States	% of Students From Abroad
2008-12	EEE	(66) 100%	(0) 0%	NIL
2009-13	EEE	(66) 98.48%	(1) 1.5%	NIL
2010-14	EEE	(66) 95.4%	(3) 4.5%	NIL
2011-15	EEE	(72) 97.2%	(2) 2.7%	NIL
2012-16	EEE	(72) 97.22%	(2) 2.777%	NIL

28. How many students have cleared national and state competitive examinations such as

NET, SLET, GATE, Civil services, Defense services, etc. ?

BATCH	GATE	TOFEL	GRE	CAT
2008-12	4	3	3	-
2009-13	2	3	3	-
2010-14	3	2	2	-
2011-15	-	3	3	-
2012-16	3	1	5	-

29. Student progression:

Student progression	Against % enrolled				
	2008-12	2009-13	2010-14	2011-15	2012-16
UG to PG	(1) 1.5%	(3) 4.5%	(7) 10.6%	(5) 6.9%	(8) 11.1%
PG to M.Phil	NIL	NIL	NIL	NIL	NIL
PG to Ph.D.	(1) 1.5%	NIL	NIL	NIL	NIL
Ph.D. to Post-Doctoral	NIL	NIL	NIL	NIL	NIL
Employed					

NAAC - SELF STUDY REPORT

Campus Selection	(22) 55.5%	(27) 67.5%	(24)60%	(26) 65%	(39) 78%
Other than Campus	(5) 7.5%	(11) 16.6%	(4) 6.06%	(10)15.15%	(6) 9.09%
Entrepreneurship/Self-employment	NIL	NIL	NIL	NIL	NIL

30. Details of Infrastructural facilities:

a) Library: Plinth Area: 60 Sq. ms.

Department	Electrical& Electronics Engineering
No. of Books	1697
No. of Titles	285

b) Internet facilities for Staff & Students:

Wi-Fi enabled Campus with Internet speed of **20 Mbps**

c) Class rooms with ICT facility: **YES**

Rooms	No of Rooms	Facilities Available
No. of Class Rooms	04	LCD Projector, Benches, fans, Tube lights, podium, Glass Board, Chalks & Duster,
No. of Tutorial Rooms	01	LCD Projector, Benches, fans, Tube lights, podium, Glass Board, Chalks & Duster,
Seminar Hall	01	LCD Projector, Air Conditioners, Tube Lights, Fans, Glass Board, White Board, Goose Neck Mic, Collar Mic, Good Quality PA system with Speakers

d) Laboratories:

Name of the Lab	Shared/ Exclusive	Labs Conducting	Floor Area Sq. m	Equipment
ELECTRICAL		ELECTRICAL		DC Shunt Motor

NAAC - SELF STUDY REPORT

MACHINES LAB	Shared	MACHINES-I	66	DC Compound Motor
				DC Shunt Motor Coupled To DC Shunt Generator
				DC Shunt Motor Coupled To Non-Salient Pole Alternator
				DC Shunt Motor Coupled To DC Series Generator
				Series Machines Coupled To Each Other
				MC Portable voltmeter
				MC Portable Ammeter
				Rheostats
	Non-Contact Tachometer			
	Shared	ELECTRICAL MACHINES-II	66	Three Phase Squirrel Cage Induction Motor
				Three Phase Slip Ring Induction Motor
				AC Synchronous Motor
				Single Phase Capacitor Start And Capacitor Run Induction Motor
				2KVA Transformers
				Three Phase Auto Transformers
				Single Phase Auto Transformers
Non-Contact Tachometer				
Resistive Loads				

NAAC - SELF STUDY REPORT

				Rheostats
				Digital Multimeters
				Wattmeter
				MI Portable Ammeter
				MI Portable Voltmeter
ELECTRICAL MEASUREMENTS LAB	Shared	ELECTRICAL MEASUREMENTS LAB	66	LVDT Trainer Kit
				Strain Gauge Bridge Trainer Kit
				Schering Bridge
				Anderson Bridge
				AC Bridge
				Calibration Of Dynamometer Type Power Factor Meter
				Calibration And Testing Of Single Phase Energy Meter
				Measurement Of Three Phase Reactive Power With Single Phase Wattmeter
				Measurement Of Power And Parameters Of A Choke Coil Using 3-Ammeter And 3-Voltmeter Method
				Crompton DC Potentiometer
				Kelvin Double Bridge
				Single Phase Cyclo Converter Kit
				Single Phase AC Voltage Controller Circuit Kit

NAAC - SELF STUDY REPORT

POWER ELECTRONICS LAB	Shared	POWER ELECTRONICS LAB	64	Single Phase Fully Controlled Bridge Converter Kit
				Single Phase Parallel Inverter Power Circuit Kit
				Single Phase Half Controlled Bridge Converter Kit
				Single Phase Series Inverter Circuit Kit
				Single Phase Dual Converter Kit
				Study Of Characteristics Of SCR,MOSFET,IG BT Kit
				Study Of SCR Firing Circuit Trainer Kit
				Forced Commutation Circuit Kit
				DC Jones Chopper Power Circuit Kit
				Three Phase Half Controlled Bridge Converter Power Circuit Kit\
CONTROL SYSTEMS LAB	Shared	CONTROL SYSTEMS LAB	66	Linear System Simulator Kit
				Characteristics Of Synchros Kit
				Transfer Function Of DC Motor Kit
				Effect Of P,PI,PID Controller Kit
				Lag And Lead Compensation Kit
				Characteristics Of Magnetic Amplifier Kit
				Characteristics Of

NAAC - SELF STUDY REPORT

				AC Servo Motor Kit
				Digital Multimeters
				Function Generator
				Servo Controlled Voltage Stabilizer
ELECTRICAL CIRCUITS LAB	Shared	ELECTRICAL CIRCUITS LAB	82.5	Super Position Theorem Kit
				Millmans Theorem Kit
				Maximum Power Transfer Theorem Kit
				25/5A Rheostats
				35/5A Rheostats
				40/5A Rheostats
				50/5A Rheostats
				18/8.5A Rheostats
				200/1.7A Rheostats
				100/2.8A Rheostats
				MIAC Portable Ammeter
				MIAC Portable Voltmeter
				Bread Boards
				Decade Resistance Box
Digital Multimeter				
POWER SYSTEMS LAB	Shared	POWER SYSTEMS LAB	60	Sequence impedances of 3 phase transformer specification kit
				Sequence impedances of 3 phase alternator by fault analysis kit
				Sequence impedances of 3 phase alternator by

NAAC - SELF STUDY REPORT

				direct method kit
				Dielectric strength of transformer oil kit
				ABCD parameters of transmission network transmission line type kit
				Calibration of Tong tester
				Power angle characteristics of 3phase alternators with infinite bus bars
POWER ELECTRONICS &DRIVES LAB	Shared	POWER ELECTRONICS AND DRIVES LAB	60	Operation of 3-phase Full Conveter on R & RL Load Kit
				Performance & Speed Control of DC Drive using 3-phase full converter Kit
				Performance & Operation of 4 quadrant chopper on Dc drive Kit
				Performance & Operation of 3 phase AC voltage controller on Motor load Kit
				Single phase IGBT based PWM Inverter on R &

NAAC - SELF STUDY REPORT

				RL Load kit
				Performance & Speed Control of 3 phase slip ring induction motor by Static rotor resistance controller Kit
				3 Phase PWM Pulse generation using PIC Micro controller Kit

31. Number of students receiving financial assistance from college, university, government or

Other agencies:

S.No	Category	2015-16		2014-15		2013-14		2012-13	
		No.	%	No.	%	No.	%	No.	%
1	SC	7	3.6	3	1.6	29	17	32	20.9
2	ST	0	0	0	0	2	1.2	5	3.2
3	BC	9	4.6	11	6.11	80	49	69	45
4	EBC	4	2.56	5	2.77	47	28	41	26
5	MUSLIM MINORITY	1	0.5	0	0	7	4.2	6	3.9
6	GATE	1	5.55	1	5.55	1	5.55	-	-

32. Details on student enrichment programmes (special lectures/workshops /seminar) with

External experts:

S.No	Event	Resource Person	Date
1	Guest Lecture on Wind Energy	Dr. Jagadish	15/07/2011
2	Guest Lecture on Power Saving	Sri.Srinivasa	10/08/2011

NAAC - SELF STUDY REPORT

		Rao	
3	Guest Lecture on Power Theft	Sri. Krishna Rao	16/09/2011
4	Guest Lecture on Roto Dyne	Sri. Abdul Sattar	01/11/2012
5	Work Shop on MATLAB/SIMULINK	Sri. V. Naresh	19/12/2012
6	Guest lecture on Thermal Power Station	P.D. Srinivas	02/02/2015

33. Teaching methods adopted to improve student learning:

NPTEL, Coeerd, LEARNING WARE, LCD PROJECTOR, OHP, Real time Systems examples, Industrial Tours

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

- Through NSS conducting awareness programs & helping the people working with good cause.
 - Blood Donation Camps
 - Clean & Green Programme
 - Solar initiation

S.No.	Date	Event	Conducted By	Venue
1.	20/10/2012	Blood Donation	NSS	NRIIT
2.	29/09/2013	Blood Donation	NSS	NRIIT
3.	28/08/2014	Clean & Green	NSS	NRIIT
4.	06/09/2014	Clean & Green	NSS	Agiripalli
5.	26/10/2015	Solar Initiation	EEE Department	NRIIT

NAAC - SELF STUDY REPORT

6.	20/09/2016	Blood Donation	NSS	NRIIT
----	------------	-------------------	-----	-------

35. **SWOC ANALYSIS** of the department and Future plans:

STRENGTHS

- The department has dedicated faculty who always strives hard and inspires Students to achieve their goals.
- The institute has been recognized as one of the best among all the colleges in the state of Andhra Pradesh.
- The department is well associated with the faculty of JNTUK in all its academic matters.
- Relatively better standard student intake.
- Qualified and experienced supporting staff and Teaching methodologies as per GATE and IES Syllabus.
- Continuous support and advice of Alumni to the present needy students.
- Good infrastructure and Library facilities as per academic standards
- Eco friendly and Pollution free Environment
- The institute is well known for quality education and discipline
- Good computation facility with necessary software
- Teaching methodologies as per GATE and IES Syllabus.

WEAKNESSES

- Inadequate research and consultancy.
- Less industry oriented training programs.
- No summer classes offered at graduate level.
- Because of tight schedule of class work, only a few faculties are permitted to participate in outside seminars/workshops/training programs.

OPPORTUNITIES

NAAC - SELF STUDY REPORT

- Department faculty has the capability to undertake research projects individually and in collaboration with inter-disciplinary faculty/ industrial experts.
- Growing demand for students of core departments.
- Possibility to attract the well qualified faculty as the department has been listed among the most reputed colleges in the state of Andhra Pradesh.
- Relatively better standard student intake leads to organize innovative and technological development activities.
- PG course in Power electronics and drives provides ample opportunities to the students to improve research activity.
- Increased global need for quality engineering graduates
- The college is conducting Placement drives for the jobs in industries every year and the students are placed at different areas of their Interest. More jobs particularly in electrical industry

CHALLENGES

- Gradual deterioration in the standards of incoming students
- Entry of foreign universities
- Number of students from rural areas with telugu medium background

FUTURE PLANS:

- To conduct national conference every year.
- To conduct faculty development programs with the help of UGC/AICTE
- International level symposiums for students to develop communication skills and leadership qualities.
- Planning to Collaborate with reputed Industries to improve the technical skills of students and staff.
- To activate Research & Development cell.

Evaluative Report of IT Department

1. Name of the department: INFORMATION TECHNOLOGY(IT)

2. Year of Establishment : 2008

3 .Names of Programmes /Courses offered:

S. No	Name Of The Program	U.G/P.G	Sanctioned Intake	Year Of Establishment
1	I.T	U.G	60	2008

4. Names of Interdisciplinary courses and the departments/units involved

S.No	Course	Department
1	English – I & II	Science & Humanities Department
2	Mathematics – I, II, & III	
3	Engineering Chemistry Theory & Laboratory	
4	Engineering Physics Theory & laboratory	
5	Professional Ethics and Human Values	
6	English - Communication Skills Lab – I & II	
7	IPR & Patents	
8	Environmental studies	
9	Mathematical Foundations of Computer Science	
10	Managerial Economics and Financial Analysis	
11	Probability & Statistics	
12	Statistics with R – Programming	
13	Engineering Mechanics	Mechanical Engineering Department
14	Engineering Drawing	
15	Engineering Workshop	

NAAC - SELF STUDY REPORT

16	Network Analysis	Electronics and Communication Engineering Department
17	Digital Logic Design	
18	Data Communication	

5 .Annual/ semester/choice based credit system (programme wise):

S.N	Course	Annual/ semester/choice based credit
1	B.Tech I, II ,III,IV YEARS	Semester Wise Credit System

6 .Participation of the department in the courses offered by other departments

S.No	Course	Department	Credits	Periods T/lab.
1	Data Structures	CSE	4	5
2	Computer Architecture & Organization	EEE	4	5
3	Java Programming	EEE	4	5
4	Computer Networks	ECE	4	5
5	Interactive Computer Graphics	MECH	4	5

7. Courses in collaboration with other universities, industries, foreign institutions, etc.: NIL

* The institution is offering the following certification programs in association with other MNC's, Organizations etc

S.No	Course	Industry/Company
1	Fundamentals of the java programming ,Language, java SE	M/s. Oracle University
2	Java Programming Language, java SE 6, 1.1 English	
3	Oracle Database 11g Program with PL/SQL 2.0	
4	Web Component development with Servlets and JSPs,Java	
5	Java SE 7 Programming	

NAAC - SELF STUDY REPORT

6	Microsoft Ed-Vantage Programme	Microsoft
7	Courses on Android, Java	(Andhra Pradesh State Skill Development)
8	Data Warehousing and Data Mining	Massive Open Online Courses(MOOCs)
	Mobile Computing	

8. Details of courses/ programmes discontinued (if any) with reasons:
NIL

9. Number of teaching posts

	Sanctioned (As Per AICTE)			Filled		
	UG	PG	TOTAL	UG	PG	TOTAL
Professors	1	-	1	1	-	1
Associate	2	-	2	2	-	2
Assistant	9	-	9	9	-	9

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt.

/Ph.D. / M. Phil. etc.,)

S.No	Faculty Name	Qualification	Designation	Specialization Area	No. of Exp. In Years	No. Ph.D Students Guided
1	Dr.Yalamanchili Sushma	M.Tech,ph.D	Professor	Information Security	20	0
2	Mr. V.Sudhakara Rao	M.Tech. (Ph.D.)	Associate Professor	Graph Theory	15	0
3	Mr. Ch.V.Murali Krishna	M.Tech. (Ph.D.)	Associate Professor	Recommender Systems	14	0
4	Mrs. M.Praveena	M.Tech.	Assistant Professor	Computer Science & Engg	8	0

NAAC - SELF STUDY REPORT

5	Mrs. S. Nahida	M.Tech.	Assistant Professor	Computer Science & Engg	8	0
6	Mrs. M.B.Anusha	M.Tech.	Assistant Professor	Computer Science & Engg	2	0
7	Mr.Y.N.S.Satyanarayana	M.Tech.	Assistant Professor	Computer Science & Engg	5	0
8	Mrs.CH. SanthaKumari	M.Tech.	Assistant Professor	Computer Science & Engg	3	0
9	Mrs.P.Naga Lakshmi	M.Tech.	Assistant Professor	Computer Science & Engg	1	0
10	Mr. B.Surya Prakash	M.Tech.	Assistant Professor	Computer Science & Engg	2	0
11	Mrs.P.Naga Sravanthi	M.Tech.	Assistant Professor	Computer Science & Engg	1	0
12	Mrs.P.Anuradha	M.Tech.	Assistant Professor	Computer Science & Engg	1	0

11. List of senior visiting faculty: NIL

12. Percentage of lectures delivered and practical classes handled (programme wise) By temporary faculty: NIL

13. Student -Teacher Ratio (programme wise)

Programme: UG [B.Tech]: 15:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and Filled

S.No	Staff	Sanctioned	Filled
1	Academic Support Staff	1	1
2	Administrative Staff	1	1

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

NAAC - SELF STUDY REPORT

S.No	No. of Faculty With Ph.D	No. of Faculty With PG (M.Tech)
1	1	11

20. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: NIL

21. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received: NIL

22. Research Centre /facility recognized by the University: NO

23. Publications:

a) Publication per faculty

S.No	Faculty Name	National Journal	International Journal	National Conference	International Conference	Impact Factor
1	Dr. Yalamanchili Sushma	2	6	6	0	3.8
2	Mr. V.Sudhakara Rao	0	2	0	0	3.5
3	Mr. Ch.V.Murali Krishna	0	2	1	0	3.5
4	Mrs. M.Praveena	0	1	1	0	3.2
5	Mrs. S. Nahida	0	2	0	0	3.2
6	Mrs. M.B.Anusha	0	5	0	0	3.8
7	Mr. Y.N.S.Satyana rayana	0	1	0	0	3.2
8	Mrs.CH. Santha Kumari	0	1	1	0	3.2
9	Mrs.P.Naga Lakshmi	0	1	0	0	3.2
10	Mr.B.Surya Prakash	0	1	0	0	3.2
11	Mrs.P.Naga Sravanthi	0	1	0	0	3.2
12	Mrs.P.Anuradha	0	1	0	0	3.2

NAAC - SELF STUDY REPORT

Number of papers published in peer reviewed journals (National /International) by faculty and students.18

Monographs: NIL

Chapter in Books: NIL

Books with ISBN/ISSN numbers with publishers: NIL

Citation Index: NIL

Impact factor: 3.4

h-index: NIL

Laboratory Manuals Published: 20

20. Areas of consultancy and income generated: TCS ION CENTER

S.No	Type of Consultancy Provided	Company Name	Income generated	
			2015-16	2016-17
1	Conducting Online Examinations	TCS-ION	35,00,000	32,00,000

21. Faculty as members in
- a) National committees: No
 - b) International Committees: No
 - c) Editorial Boards: No

22. Student projects

- a) Percentage of students who have done in-house projects including inter departmental/programme
- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies

YE A R	TOTAL NO OF STUDENT S	INHOUS E	INHOUSE %	OUTSID E	OUTSIDE %
2015 – 2016	60	60	100%	0	0
2014 – 2015	60	60	100%	0	0
2013 – 2014	60	60	100%	0	0

23. Awards / Recognitions received by faculty and students research

NAAC - SELF STUDY REPORT

awards received by the faculty

S.No	Name of the faculty	Award/Recognition	Awarded By	Year
1	Dr. K.V. Sambasiva Rao	WHO IS WHO IN THE WORLD	Marqui's International, New Jersey's	1998
2	Dr. K.V. Sambasiva Rao	EMINENT EDUCATIONIST AWARD	Indus Foundation & FAPCCI, Govt. of	2013

* Credentials are for DEAN (CSE,IT&MCA)

Publications and awards in inter institute events by students of the programme

S.N O	Name of the students	Award/Recognition	Awarded By	Academic Year
1	G.Saran Kumar	2nd Prize In Reverse Coding	Andhra Loyola Institute Of Engineering And Technology	2015
2	P.Sai Abhishek	ZEITGEIST 2K16	JNTUK	2015
3	S.V.P. Madhuri, K.V.Sai Radha Pranathi, P.Mounika	Coding Test	VXL IT ACADEMY	2015
4	G.Saran Kumar, N.Sandeep	2nd Prize In Technical-Snake And Ladder	Andhra Loyola Institute Of Engineering And Technology	2015
5	CH.Ajay Kumar, A.Tejasri,G.Swetha, G.Saran Kumar, N.Sandeep	3 rd Prize in Technical Quiz	Andhra Loyola Institute Of Engineering And Technology	2015
6	Ch.Ajay Kumar, N.Sandeep	1 st prize in Management	Andhra Loyola Institute of	2016

NAAC - SELF STUDY REPORT

		using IOT	Engineering and Technology	
7	Ch.Ajay Kumar, G.N.V.S.D.S.P.G.Sar an kumar, N.sandeep	1 st prize in Technical Quiz	Andhra Loyola Institute of Engineering and Technology	2016
8	G.N.V.S.D.S.P.G.Sar an kumar,	1 st prize in Power Point Presentation	NRI Institute Of Technology	2016
9	Y.Akhil Teja, N.Sandeep, G.N.V.S.D.S.P.G.Sar an kumar	Participation in Paper presentation	LBRC Engineerin g, Vijayawada, Andhra Pradesh	2016
10	B.surabhi , K.Navya	Participation in Bug Tracking In C	Potti Sriramulu Chalavadi mallikarao college of Engineering and technology, Vijayawada,	2017
11	T.Radhika	Participation in Quiz	Potti Sriramulu Chalavadi mallikarao college of Engineering and technology, Vijayawada,	2017
12	V.VeenaMadhui,Ch. Harika, A.Ramya,, Y.Mounika , A.Sindhuja	Participation in Blind-C	Viganan's University, Vadla mudi.	2017
13	P.J.Afreen,P.Likhitha njali,	Participation in Paper Presentation	Dhanekula Institute of Engineering and technology, Vijayawada,	2017

NAAC - SELF STUDY REPORT

	M.Sai, M.S.jaasmitha		Andhra Pradesh	
14	P.Likhithanjali,M.Sai, M.S.jaasmitha	Participation in Keyboard Deciphere	Dhanekula Institute of Engineering and technology, Vijayawada, Andhra Pradesh	2017
15	A.Ramya,Y.Mounika, A.Sindhuja	Participation in Break The Brick	Viganan's University,Vadla mudi	2017
16	A.Sindhuja	Participation in Technical Quiz	Dhanekula Institute of Engineering and technology, Vijayawada, Andhra Pradesh	2017
17	S.Heena	Participation in Coding Contest	PVP Siddhartha Institute Of Technology, Vijayawada, Andhra Pradesh	2017
18	S.Heena	Participation in Technical Quiz	PVP Siddhartha Institute Of Technology, Vijayawada, Andhra Pradesh	2017

NAAC - SELF STUDY REPORT

Sports:

S.No	Name of the Student	Award/Recognition	Event	Year
1	KASU PRATAP REDDY	PARTICIPATION	SOUTH ZONE INTER UNIVERSITY HANDBALL TOURNAMENT AT BHARATIDASAN UNIVERSITY	2013-2014
2	N.SANDEEP, G.N.V.S.D.S.P.G.SARAN KUMAR	PARTICIPATION	TECHNICAL SNAKE & LADDER ALIET, VIJAYAWADA, ANDHRA PRADESH	2016

24. List of eminent academicians and scientists / visitors to the department

S.No	Name of the Speaker	Topic	Date
1	Mr.D.Rama Krishna,MD, Efftronics systems,Pvt,Ltd.vijayawada	Next Generation Systems	2016
2	Capt.Dr.S.Santhosh Baboo,professor,DG Vaishnav college,Chennai	Cluster based segmentation methods for medical image	2016
3	Dr.B.V.Subba Rao,Professor,PVPSIT,Vijayawada	Prediction of crop intelligence attributes	2016

NAAC - SELF STUDY REPORT

4	Mr.K.Dheeraj, Promoter ,Gurukul.	Significance of IOT & Artificial intelligence.	2016
5	Mrs.Layanaya,APSSDC.	Current Trends in IOT	2016
6	Mrs.Alekya,APSSDC.	Current Trends in IOT	2016
7	Mr.Veer Anjaneya Nagaraju,Big data minds	3 days Work shop on Hadoop and Big data analytics	2016
8	Mr.Madhu Parvathaneni Entrepreneur / IoT Developer ORL Industries	3 days Work shop on IOT.	2016
9	Mr.M.Ram Mohan,Cronux Technologies,Hyderabad	Seminar on SAP	2016
10	Mr.Ch.Sai Sateesh.	Seminar on Malware Technology	2016
11	Mr.Nivas,Team Campus Connect,Infosys.	Opportunities in present IT Industry	2016
12	Mr.Venkat Ramana Kuruhuri,Associate Vice President-HR.	Focus Insight Innovation	2015
13	Mr.Satya Thopalli,HR-Campus Recruitment.	Emerging Technologies	2014
14	Mr.Vijayan Srinivas,Zen3 Infosolutions(India)Limited.	Latest Trends in IT	2014

NAAC - SELF STUDY REPORT

15	Mr.Durga Prasad,Recruitment HR,Mahindra Satyam	How to be best suited into IT	2011
----	---	----------------------------------	------

25. Seminars/ Conferences/Workshops organized & the source of funding

a) National b) International

S.No	Seminars/Conferences/Workshops	Academic Year	Source of funding
1	National Conference on Next generation Computing.	2016-17	DST
2	Seminar for student	2016-17	Management
3	Seminar for student	2016-17	Management
4	Seminar for student	2016-17	Management
5	Seminar for student	2016-17	Management
6	Seminar on Ethical Hacking.	2016-17	Management
7	Seminar on SAP.	2016-17	Management
8	Seminar on Malware Technology.	2016-17	Management
9	3 days Workshop on Hadoop and Big Data analytics.	2016-17	Management
10	3 days Workshop on IOT.	2016-17	Management
11	Faculty development program	2015-16	Management
12	Seminar for student	2015-16	Management
13	Seminar for student	2015-16	Management
14	National Conference on Data Mining and emerging techniques.	2012-13	Management
15	Faculty development program on Teaching Methodologies.	2012-13	Management
16	Faculty development program on JAVA.	2012-13	Management

NAAC - SELF STUDY REPORT

26. Student profile programme/course wise:

S.No	Programme / Course wise : B.Tech	No. of Students Sanctioned in I Year + II Year (LE's)	No. of Students Admitted in I Year + II Year (LE's)	% of students awarded with degree (Including supplies result)
1	2010-2014	66	55	42(76%)
2	2011-2015	66	51	35 (68%)
3	2012-2016	66	60	

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B.Tech	100	NIL	NIL

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Year	GATE	GRE / GMAT	CAT	Others
2015-16	03	02	Nil	Nil
2014-15	02	02	Nil	Nil
2013-14	02	02	Nil	Nil

NAAC - SELF STUDY REPORT

29. Student Progression

Student progression	%				
	2012	2013	2014	2015	2016
UG to PG	Nil	Nil	Nil	Nil	Nil
PG to M.Phil.	Nil	Nil	Nil	Nil	Nil
PG to Ph.D.	Nil	Nil	Nil	Nil	Nil
Employed <ul style="list-style-type: none">• Campus selection(CS)• Other than campus	75	Nil	81	37	21

30. Details of Infrastructural facilities

a) Library: Plinth Area: 52 sq. mts.

No. of Titles	60
No. of Volumes	120
No. of Printed National Journals	08
No. of Printed International Journals	02
E-Journals	IEEE, Springer
Video Lectures	NPTEL(http://www.192.168.4.3/ntpl)

b) Internet facilities for Staff & Students: Yes

Wi-fi enabled in Campus. Internet Speed of 10 Mbps 1:1 BSNL Leased Line, 20 Mbps Broad Band unlimited, 15 Mbps Orange net are available.

c) Class rooms with ICT facility: Yes

Room Type	No. of Rooms	Facility Available
Lecture Rooms	03	LCD Projectors, Internet and Computer,
Tutorial Rooms	01	

NAAC - SELF STUDY REPORT

Seminar Hall	01	LCD Projectors, Internet and Computer, Audio System
--------------	----	---

d) Laboratories

S.No	Name of the laboratory	Area(sqm)	No. of Systems
1	Web Technologies lab	100	72

31. Number of students receiving financial assistance from college, university, Government or other agencies

Category	2015-2016	2014-2015	2013-2014	2012-2013
	Number	Number	Number	Number
Government SC Corporation	0	01	03	04
Government ST Corporation	0	00	00	00
Government BC Welfare Commission	17	17	28	30
Government From EBC Commission	61	58	51	53
Government -	02	02	02	01

NAAC - SELF STUDY REPORT

MINORITY Commission				
OTHERS	-----	-----	-----	-----
TOTAL	80	78	84	88

32. Details on student enrichment programmes (special lectures / workshops /Seminar) with external experts

S.No	Academic Year	Name of the Speaker	Topic
1	2016-17	Mr.Veer Anjaneya Nagaraju, Big Data Minds	3 days Work shop on Hadoop and Big Data Analytics
2	2016-17	Madhu Parvathaneni Entrepreneur / IOT Developer ORL Industries	3 days Work shop on Hadoop and Big data analytics
3	2016-17	Mr.Nivas,Team Campus Connect,Infosys	Opportunities in present IT Industry
4	2015-16	R. Mohan, Cronux Technologies, Hyderabad	Seminar on SAP
5	2015-16	Venkat Ramana Kuruhuri Associate Vice President – HR Zen3 Info solutions (India) Limited	Focus Insight Innovation
6	2015-16	Mr.Sai Sateesh.Ch	Seminar on Malware Technology
7	2014-15	Satya Thopalli HR - Campus Recruitment Tech Mahindra	Emerging technologies
8	2014-15	Vijayan Srinivas GM Zen3 Info solutions (India)	Latest Trends in IT

33. Teaching methods adopted to improve student learning

- Although the diverse styles with which students learn are numerous, the inclusion of small number of techniques is done to impart better knowledge to them.
- The students are provided with state of the art infrastructure, technology and equipment required to carry on the teaching process in a more synchronized manner.
- The teaching methods adopted are well in consonance with the industry needs and are updated on a regular basis.
- Hands on experience in the respective fields is provided to the students in the form of online training programs, collaborative training with IBM, TCs, field trips, national and international conferences and workshops, remedial and tutorial classes, training for campus placement and aptitude, English labs for effective communication, seminars by in-house faculty and guest speakers etc.
- The skills and knowledge of the teachers are upgraded regularly to make them well verse with the latest industry trends so that they can impart knowledge of latest trends and techniques to the students through Faculty development programmes.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Strengthening practical experience for students in universities is essential to move social responsibility from theoretical base to effective change.

ISR	Year's	Extension Activities	Year's
Relief fund during National Calamities like	2013	Blood Donation Camp	2015,2016

NAAC - SELF STUDY REPORT

Uttaranchal flood			
Women awareness programme	2016	Blood Grouping Camp	2015,2016
Awareness about diseases and Precautions	2016	Educating slum children	2011,2012,2016
Organizing Medical Checkup Camps	2011,2012,2016	Sensitization of school children towards Basic Science	2011,2012,2016
Health and hygiene awareness Programme	2011,2012,2016		

* These activities are conducted by the Institution and the Department on regular basis and all the Students and Faculty of the Department participate in them

35. SWOC analysis of the department and Future plans

Strengths:

- Availability of well qualified and experienced faculty.
- Well equipped laboratories with latest systems and required software.
- Decent results with good placements.
- Quality final year projects which result in publication.
- Well Disciplined students.

Weaknesses:

- Inadequate Financial aid for research.
- Publications in reputed Journals should be improved .
- Need to be improve entrepreneurship opportunities.

Opportunities:

- Academic Autonomy and Functional Autonomy so as to cater the need of industries by
Continuously updating the curriculum and facilities with the changing demands of market: Deemed University, centre of excellence.
- Allowing students to participate AP State's Skill Development Program to enhance technical skills to develop mobile apps
- Entrepreneurship Development Centre to cater the need of entrepreneurs
- Projects with Industry Govt. Organizations leading to R & D centre with the Institute.
- To explore new horizons in research work/studies

Challenges:

- Less employment opportunities
- Lack of Academic Autonomy: Dependence upon traditional curriculum.
- Privatization of Professional Education.

Objectives and expected results in terms of "Institutional strengthening and improvements in employability and learning outcomes of graduates".

Objectives:

- Strengthening Institution to produce high quality engineers for better employability
- To take up R&D projects from funding agencies like DST, UGC and AICTE
- Establishing Centers of Excellence for focused applicable research
- Training of faculty for effective Teaching
- Enhancing Institutional and System Management effectiveness

Improvements in teaching, training and learning facilities

- Enhanced R & D and institutional consultancy activities
- Faculty and staff development for improved competence
- Enhanced interaction with industry

NAAC - SELF STUDY REPORT

Evaluative Report of the Department Of CIVIL Engineering

1. Name of the Department : CIVIL Engineering

2. Year of Establishment : 2009-10

3. Names of Programmes / Courses offered

S.No.	Engineering / Technology			Sanctioned Intake	Year of Start
1	U.G.	B.E.	CIVIL	60	2009
			Engineering	120	2012
2	P.G.	M.E.	Structural Engineering	24	2014

4. Names of Interdisciplinary courses and the departments / units / subjects involved

i. U.G. - B.E. CIVIL Engineering

S.No.	Subjects	Semester	Department Involved
1	ENGLISH- 1 & 2	II	Science and Humanities
2	MATHEMATICS	II	Science and Humanities
3	ENGINEERING CHEMISTRY	II	Science and Humanities
4	PROBABILITY & STATISTICS	III	Science and Humanities (Mathematics)
5	BEEE	III	Electronics and Communication
6	MEFA	IV	Science and Humanities
7	FLUID MECHANICS	IV & V	Mechanical Engineering

NAAC - SELF STUDY REPORT

ii. P.G. - M.Tech. (STRUCTURAL ENGINEERING)

S.No.	Courses	Semester	Department Involved
1	Applied Probability and Statistics	I	Science and Humanities
2	Finite Element Method (FEM)	I	Mechanical Engineering

5. Annual / semester / choice based credit system (Programme wise)

S. No	Engineering / Technology			Annual / Semester Credit System
1	U.G.	B.E.	CIVIL Engineering	Semester Based Credit System
2	P.G.	M.E.	Structural Engineering	Semester Based Credit System

6. Participation of the department in the courses offered by other departments

Nil

7. Courses in collaboration with other universities, industries, foreign institutions, etc.

AP - SKILL DEVELOPMENT PROGRAM –

Technical training on on-site construction techniques - Practice

8. Details of courses/programmes discontinued (if any) with reasons: **NIL**

9. Number of Teaching posts

Cadre Wise Teaching Faculty	Academic Year 2016-17	
	Sanctioned	Filled
Professor	4	2
Associate Professor	6	6
Assistant Professor	18	22
Lecturer	-	-
Total	28	29

NAAC - SELF STUDY REPORT

10. Faculty profile with name, qualification, designation, specialization : AY 2016-17

S. NO.	NAME OF THE STAFF MEMBER	DESIGNATION	QUALIFICATION	SPECIALIZATION	EXPERIENCE
1	G.V. RAMANJANEYULU	Professor	M. Tech. (PhD)	Structures	22
2.	V. JAYARAM (Asst. Manager L & T)	Professor	M. Tech.	Structures	14
3	CH.CHANDRA SEKHARA SRINIVAS	Associate Professor	M. Tech. (PhD)	Structures	11
4	M. RAMACHANDRA RAO	Associate Professor	M. Tech.	Structures	28
5	B.V.S. PRASAD	Associate Professor	B.Tech., M.A (Eng)	Civil	16
6	K. BHASKARA RAO	Associate Professor	M.sc.(PhD)	Geology	8
7	MD. BIBI JARINA	Associate Professor	M.sc; M.Tech (Environment)	Environment	9
8	B. UDAYA SHANKAR	Associate Professor	M.sc., AMIE	Geo physics	9
9	S. PAVAN SRINIVAS	Assistant Professor	M.Tech	Structures	3
10	CH. VEEROTTAM KUMAR	Assistant Professor	M.Tech	Structures	5
11	M. KRISHNA KUMAR	Assistant Professor	M.Tech	Structures	5
12	R.H PHANINDRA	Assistant Professor	(M.Tech)	Structures	3
13	N. MADHAVA	Assistant Professor	M.Tech	Structures	3
14	S. SIVA RAMAKRISHNA	Assistant Professor	M.Tech	Structures	1

NAAC - SELF STUDY REPORT

15	L. SRIVARSHA	Assistant Professor	(M.Tech)	Structures	3
16	B. VINAYAKA	Assistant Professor	M.Tech	Transportation Engg.,	1
17	G. NANI BABU	Assistant Professor	M.Tech	Environment Engg.,	1
18	K. PRAVEEN KUMAR	Assistant Professor	M.Tech	Structures	2
19	B. BABY SAROJINI DEVI	Assistant Professor	(M.Tech)	Structures	1
20	K. DINESH	Assistant Professor	M.Tech	Structures	3
21	B. SAMBA SIVA RAO	Assistant Professor	(M.Tech)	Structures	1
22	M. KAMALA	Assistant Professor	(M.Tech)	Structures	1
23	U. SWETHA	Assistant Professor	(M.Tech)	Structures	1
24	K. SUMATHI	Assistant Professor	(M.Tech)	Structures	1
25	ASHA SEDEQ	Assistant Professor	M.Tech	Structures	2
26	N. VISWA SANTHI	Assistant Professor	(M.Tech)	Structures	4
27	A. ROHITHA SRI	Assistant Professor	M.Tech	Structures	1
28	V. RAMA TULASI	Assistant Professor	(M.Tech)	Structures	0
29	G. SAI RAMA KRISHNA DINESH	Assistant Professor	B.Tech	CIVIL	--

11. List of senior visiting faculty :

S.No	Name of the Visiting Faculty	Designation	Company/Institution
1	Mr. V. Janardhana rao	PRINCIPAL	SC railway training institute, VJA
2	Mr. D.S.S.SARMA	Retd., S.E, Irrigation	IRRIGATION

NAAC - SELF STUDY REPORT

3	Dr. S.R.Parimi	Professor, Structural engineer,	Vikasa vidhya vanam,
---	----------------	------------------------------------	----------------------

12. Percentage of lectures delivered and practical classes handled by temporary faculty : - 10%

13. Student -Teacher Ratio

i. U.G. - B.Tech. CIVIL ENGINEERING

S.No	Academic Year	Sanctioned Intake				Faculty Strength	Student - Teacher Ratio
		II Yr	III Yr	IV Yr	Total		
1	2016 – 2017	120	120	120	360	25	15:1

ii. P.G. - M.Tech. (STRUCTURAL ENGINEERING)

S.No	Academic Year	Sanctioned Intake			Faculty Strength	Student Teacher Ratio
		I yr	II yr	Total		
1	2016 – 2017	24	24	48	4	12:1

14. Number of academic support staff (technical) and administrative staff :

Description	2016 – 2017	
	Sanctioned	Filled
Technical Support Staff	7	7
Administrative Staff	1	1

15. Qualifications of teaching faculty with DSc / D.Litt / Ph.D / MPhil / PG

NAAC - SELF STUDY REPORT

Qualification	2015 – 2016	
	Sanctioned	Filled
P.G.	24	27
Ph.D.	4	2

16. Number of faculty with ongoing projects from National /International funding agencies and grants received: NIL

17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR, etc. and total grants received :-

18. Research Centre / Facilities recognized by the University :-

19. i. Publications :

Number of papers published in peer reviewed journals (national/international) by faculty and students:

1. S.Pavan1 , S. Krishna Rao2 “**Effect of Fly ash on Strength Characteristics of Roller Compacted Concrete Pavement**” (e-ISSN: 2278-1684,p-ISSN: 2320-334X, Volume 11, Issue 6 Ver. II (Nov- Dec. 2014), PP 04-08)
2. S.Pavan1 , S. Krishna Rao2 “**Study of properties of Roller compacted concrete**” ISBN-13/978-81-929195-0-8)
3. Kanagala Dinesh , DR.Chava Srinivas “**Influence of Super Plasticizer and Time Lag on Compressive and Flexural Strength of High Performance Concrete**” International Journal of Engineering Research & Technology (IJERT) IJERT ISSN: 2278-0181 IJERTV3IS090669 Vol. 3 Issue 9, September- 2014
4. Chimirala.ch.srinivas “**long-term durability studies of glass fibre reinforced concrete**” Published in sovenier of National level paper presentation contest (Technofest-07) organized by Dept of civil Engg., KLCE.
5. Chimirala.ch.srinivas “**Utilization of Fly ash in Prefabricated Building Components**” Published in sovenier of National level paper presentation

NAAC - SELF STUDY REPORT

contest organized by Dept of civil Engg., P.S.G Engineering College, Coimbatore.

6. Chimirala.ch.srinivas srinivas.pasupuleti “**Applications of GIS for flood mapping of upper vaigai basin, Tamilnadu**” submitted to National Conference – WMEC-2007 organized by JNTU, HYD.
7. K.satish kumar Chimirala.ch.srinivas “**Utilization of Incinerated Muncipal Solid waste ash in the manufacturing of Cement hollow Bricks**” proceedings of national conference “watershed management and impact of environmental changes on water resources” JNTU, HYD.
8. Chimirala.ch.srinivas srinivas.p “**Box and Jenkins model application for rainfall forecasting of saidapet rain gauge station, Chennai**” submitted to National Conference – WMEC-2007 organized by JNTU, HYD.

20. Areas of consultancy and income generated

D. BUILDING MATERIAL TESTING : Cement , Metal, Sand, Reinforcement Etc.,

E. STRUCTURAL DESIGNS : Residential; Commercial, Industrial Buildings

F. Building Construction Monitoring: Site Execution Consultancy Services.

G. 3RD Party Quality Control - Construction checking.

Client Organization	Title of Consultancy of project	Amount received (in Rupees)
TESTING OF FLYASH/ POND ASH	Material testing	16,000/-
CONTRACTOR	Structural design of apartment for g+5 storied building	12,750
PRI SUB -DIV ELURU	Mix design	4,200
TELANGANA GRID	M.s.pipe line design for railway crossing	8,500

NAAC - SELF STUDY REPORT

AP SPHC LTD.,	Material testing	13,800
AP SPHC LTD.,	Structural design of CI -Quarters at nellore	24,435
HEAL PARADISE	Material testing	16,650
AP SPHC LTD.,	Third party quality control checking of animal sheds	9,250
AP MSIDC	Concrete cubes testing in material testing labs	13,000
S.C RAILWAY	Concrete cubes testing in material testing labs	8,400

21. Faculty as members in

- a) National committees: Nil
- b) International Committees: Nil
- c) Editorial Boards....

22. Student projects

- i. **Percentage of students who have done in-house projects including inter departmental.**
- ii. **Percentage of students placed for projects in organizations outside the institution.**

Courses	2013-14		2014-15		2015 – 2016	
	I	O	I	O	I	O
B.Tech. CIVIL Engineering	65%	35%	75%	25%	75%	25%
M.Tech. STRUCTURAL	-	-	-	-	-	100%

I - Inter Departmental
Agencies

O - Research Laboratories / Industry / Other

NAAC - SELF STUDY REPORT

26. Student profile programme/course wise:

Academic Batch	Name of the Course/Programme (refer question no. 4)	Applications received	Selected	Enrolled		Course Completed Students	Pass percentage
				*M	*F		
2011 – 2015	UG (B.Tech)	71	71	59	12	53	74.64
2012 – 2016		125	125	105	20	90	72
2013 – 2017		129	129	90	39	In-Progress	In-Progress
2014 – 2018		148	148	101	46	In-Progress	In-Progress
2015 – 2019		150	150	109	41	In-Progress	In-Progress
2014 – 2016	PG (M.Tech)	12	12	8	4	-----	-----
2015 – 2017		13	10	7	3	In-Progress	In-Progress
2016 – 2018		12	12	6	4	In-Progress	In-Progress

*M = Male *F = Female

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
UG	99.8	0.2	0
PG	100	0	0

NAAC - SELF STUDY REPORT

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc., ?

Name of the Competitive Examinations	2012-2013	2013-2014	2014-2015	Total
CAT	-	-	1	1
GATE	1	2	2	5
NICMAR	4	6	4	14

29. Student Progression

Students Progression	2009-13	2010-14	2011-15	2012-16
UG to PG	-	30%	25%	20%
Campus selection/other than campus	35%	70%	75.0%	80%
Entrepreneurship/ Self-	-	-	-	

30. Details of infrastructural facilities : a) Central Library

S.No.	Descriptions	Quantity in Numbers	
		Titles	Volumes
1	Books for students circulation for CIVIL	Titles	667
		Volumes	1982
2	Department Library for Reference	Titles	88
		Volumes	126
3	Technical Journals	National	6
		International e-Journals	2 IEEE ACCESS
4	Technical Magazines	06	
5	News Papers	1	
6	Educational CDs (CBTs)	Available	
7	Power Point Presentations	Available	

NAAC - SELF STUDY REPORT

8	OHP	Available
9	Illustrative Charts/Models and	Physical Modeling

b) Internet facilities for Staff & Students 2016 -2017:

S.No.	Descriptions	Quantity in Numbers
1	Computers	125
2	Computer with Internet	85
3	Band Width	45 Mbps
5	Network Facilities for all Computers	125
6	Printers	3
7	Scanner	1
8	Web Camera	6

c) Class rooms with ICT facility 2016 – 2017

S.No	Descriptions	Number of Rooms
1	Class room with Black Board	8
2	Class room with Projectors	4
3	Class room with OHP	2

d) Laboratories for UG and PG 2016 -2017

S. No.	Name of the Laboratory	Students Capacity / Batch
1	STRENGTH OF MATERIALS LAB	35
2	SURVEYING FIELD WORK	35
3	CONCRETE TECHNOLOGY LAB	35
4	TRANSPORATATION ENGG., LAB	35
5	GEOTECHNICAL ENGG., LAB	35
6	FLUID MECHANICS LAB	35
7	ENVIRONMENTAL ENGG., LAB	35
8	GEOLOGY LAB	35

NAAC - SELF STUDY REPORT

9	GIS & CAD LAB	72
---	---------------	----

31. Number of students receiving financial assistance from college, university, government or other agencies

Received Financial		2015	2014	2013	2012	Total
Government	First Graduate	12	14	14	15	55
	SC / ST	6	7	8	9	30
	BC/MBC	22	28	26	19	95

32. Details on student enrichment programmes (special lectures /workshops / seminar)

Academic Year	Special Lectures / Workshops / Seminar	Title	Date	External Experts
2015 – 2016	Workshop	Total station – usage applications	17.8.2015	AMIGOS ARCHITECTS, HYD

33. Teaching methods adopted to improve student learning

Aiming at the effectiveness of the teaching learning process, the department facilitates the use of various teaching tools such as

- POWER POINT PRESENTATION
- NPTEL VIDEOS / NGC VIDEOS
- CASE STUDY METHODS
- GROUP DISCUSSIONS
- ROLE PLAYING
- INTERACTIVE GAMES

34. Participation in Institutional Social Responsibility (ISR) and

Extension activities The college has the following social welfare activities

- NSS activities

1. Involving students as volunteers for conducting blood donation camps. –
- 100 STUDENTS PARTICIPATED
2. Planted Saplings actively in “Vanam-Manam” program under the scheme of A.P. State Govt. -1 55 STUDENTS PARTICIPATED
3. Donated & Established Drinking Water pipe line for one of the Govt. School in Kansanapalli. - 22 STUDENTS PARTICIPATED
4. Donated books for School children for one of the Govt. School - 43 STUDENTS PARTICIPATED

35. SWOC analysis of the department and Future plans & Strengths

STRENGTH:

- Highly qualified and well experienced faculty in different specializations
- Well established lab with the latest equipments
- Staff members motivate the students in various activities
- Support to management
- Good support from management
- Excellent infrastructure facilities

WEAKNESS:

- Not good in communication since most of the students are from rural area

NAAC - SELF STUDY REPORT

- Lack of international collaboration for exchange of students/staff
- Students are lacking to carry out research activities
- Students coming from poor academic area

OPPORTUNITIES:

- Global job opportunities in the growing infrastructure sector
- Students conducting national level technical symposium to improve the leadership qualities
- Department organizing industrial visit to help the students to gain the practical exposure apart from theoretical knowledge.

CHALLENGES:

- To motivate students to develop a deeper sense of critical and analytical thinking and to cultivate in them an endeavoring passion to be conscious morally and socially.
- To encourage research aptitude amongst students and instill an innovation prone thought process.
- To setup a forum for the alumni whereby they can maintain regular contact with the college in the form of feedback as well as valuable contributions.

FUTURE PLANS

- Motivate and support more no. of faculty to pursue and complete doctoral degree.
- Obtain research centre recognition.
- Improve the no. of journal publications by faculty members.
- Improve the graduate success rate of students from the department
- To achieve NBA Accreditation Status for the Program
- To increase the no. of University Rank Holders

NAAC - SELF STUDY REPORT

Evaluative Report

Department of Mechanical Engineering

1. Name of the department: MECHANICAL ENGINEERING
2. Year of Establishment: 2011
3. Names of Programmes /Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

Course	Specialization	Year of Establishment
U.G - B.TECH	Mechanical Engineering	2011
P.G - M.TECH	Thermal Engineering	2014

4. Names of Interdisciplinary courses and the departments/units involved:

S.No	Inter Disciplinary Course	Department
1	English – I (B.Tech - I Year/I Sem.)	B.S & H
2	Mathematics – I (B.Tech - I Year/I Sem.)	
3	Engineering Chemistry (B.Tech - I Year/I Sem.)	
4	Engineering Mechanics (B.Tech - I Year/I Sem.)	
5	Environmental Studies (B.Tech - I Year/I Sem.)	
6	Engineering Chemistry Laboratory (B.Tech - I Year/I Sem.)	
7	English - Communication Skills Lab – I (B.Tech - I Year/I Sem.)	
8	English – II (B.Tech - I Year/II Sem.)	
9	Mathematics – II (Mathematical Methods) (B.Tech - I Year/II Sem.)	
10	Mathematics – III (B.Tech - I Year/II Sem.)	
11	Engineering Physics (B.Tech - I Year/II Sem.)	
12	Professional Ethics and Human Values (B.Tech - I Year/II Sem.)	
13	Engineering Drawing (B.Tech - I Year/II Sem.)	
14	English - Communication Skills Lab – II (B.Tech - I Year/II Sem.)	
15	Engineering Physics Lab (B.Tech - I Year/II Sem.)	
16	Engineering Physics – Virtual Labs (B.Tech - I Year/II Sem.)	
17	Engg. Workshop & IT Workshop (B.Tech - I Year/II Sem.)	

NAAC - SELF STUDY REPORT

	Sem.)	
18	Managerial Economics & Financial Analysis (B.Tech - II Year/I Sem.)	
19	IPR & Patents (B.Tech - III Year/I Sem.)	
20	Operations Research (B.Tech - III Year/II Sem.)	
21	Computer Programming (B.Tech - I Year/I Sem.)	C.S.E
22	C Programming Lab (B.Tech - I Year/I Sem.)	
23	Interactive Computer Graphics (B.Tech - III Year/II Sem.)	
24	Basic Electrical & Electronics Engineering (B.Tech - II Year/I Sem.)	E.E.E
25	Basic Electrical & Electronics Engineering Lab (B.Tech - II Yr. /I Sem.)	

NOTE:

E.E.E – Electrical & Electronics Engineering Department

C.S.E – Computer Science & Engineering Department

B.S & H – Basic Science & Humanities Department

5. Annual/ semester/choice based credit system (Programme wise):

Course	Specialization	Annual/Semester/Choice Based Credit System
U.G - B.TECH	Mechanical Engineering	Semester Wise Based Credit System
P.G - M.TECH	Thermal Engineering	Semester Wise Based Credit System

6. Participation of the department in the courses offered by other departments:

S. No.	Course	Department
1	Engineering Drawing (B.Tech - I Year)	ECE, EEE,CSE, IT, ME,CE
2	Engineering Mechanics (B.Tech - I Year)	ECE, EEE,CSE, IT, ME,CE
3	Thermal Hydro Prime Movers (THPM)	EEE

NAAC - SELF STUDY REPORT

	(B.Tech - II Year/I Sem.)	
4	Thermal Hydro Prime Movers Laboratory (THPM - Lab) (B.Tech - II Year/I Sem.)	EEE
5	Fluid Mechanics (B.Tech - II Year/I Sem.)	CE

7. Courses in collaboration with other universities, industries, foreign institutions, etc.:

S.No.	Name of the Course	Collaboration with other universities/Industries/Foreign institutions
1	Campus Placement & Training Program	APSSDC (Andhra Pradesh State Skill Development Corporation)

8. Details of courses/Programmes discontinued (if any) with reasons: NIL

9. Number of teaching posts

	Sanctioned	Filled
Professors	4	3
Associate Professors	8	9
Assistant Professors	24	24

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,)

SNO	NAME OF THE FACULTY	QUALIFICATION	DESIGNATION	SPECIALIZATION	NO.OF YEARS EXPERIENCE
1	Dr. C. NAGA BHASKAR	M.TECH., Ph.D	PROFESSOR	THERMAL ENGINEERING	24 YEARS
2	Dr.PRASADA RAO KANCHERLA	M.TECH., Ph.D	PROFESSOR	I.E	15 YEARS
3	Mr.C.V. SRI RAM	M.TECH (Ph.D)	PROFESSOR	MACHINE TOOLS	20 YEARS
4	Mr. R.VIJAY KRISHNA	M.TECH	ASSOCIATE PROFESSOR & HOD	CAD/CAM	10 YEARS
5	Mr. G.V.N B PRABHAKAR	M.TECH (Ph.D)	ASSOCIATE PROFESSOR	THERMAL ENGINEERING	10 YEARS
6	D.SREE RAM PRASAD	M.TECH	ASSOCIATE PROFESSOR	THERMAL ENGINEERING	17 YEARS

NAAC - SELF STUDY REPORT

7	Mr. G.S.R.N MALLESWARA RAO	M.TECH	ASSOCIATE PROFESSOR	PRODUCTION ENGG	9 YEARS
8	Mr. V. SRIRAMA MURTHY	M.TECH	ASSOCIATE PROFESSOR	MACHINE DESIGN	6 YEARS
9	Mr. J.S. SURESH	M.E (Ph.D)	ASSOCIATE PROFESSOR	INDUSTRIAL ENGG	10 YEARS
10	Mr. K. MANI KUMAR	M.TECH (Ph.D)	ASSOCIATE PROFESSOR	CAD/CAM	14 YEARS
11	Mr. T. RAJENDRA PRASAD	M.TECH (Ph.D)	ASSOCIATE PROFESSOR	PRODUCTION ENGG.	12 YEARS
12	Mrs. K.VIDYA	M.TECH (Ph.D)	ASSOCIATE PROFESSOR	IEM	12 YEARS
13	Mr. V.MOHAN MANOJ GUPTA	M.E (Ph.D)	ASSISTANT PROFESSOR	MACHINE DESIGN	5 YEARS
14	Mr. O N V P BHAGAVAN	M.TECH	ASSISTANT PROFESSOR	MECHATRONICS	4 YEARS
15	Mrs. P. BHARATHI	M.TECH (Ph.D)	ASSISTANT PROFESSOR	MATERIAL TECHNOLOGY	5 YEARS
16	Mr. SK. ABDUL AZEEZ	M.TECH	ASSISTANT PROFESSOR	THERMAL ENGINEERING	2 YEARS
17	Mr. K. VENKATESWARA REDDY	M.TECH	ASSISTANT PROFESSOR	MACHINE DESIGN	2 YEARS
18	Mr. Y. VENKATESH	M.TECH	ASSISTANT PROFESSOR	MACHINE DESIGN	2 YEARS
19	Mr. CH. NAVEEN KUMAR	M.TECH	ASSISTANT PROFESSOR	THERMAL ENGINEERING	2 YEARS
20	Ms. A. MADHURI	M.TECH	ASSISTANT PROFESSOR	THERMAL ENGINEERING	2 YEARS
21	Mr. MD. NAZEER	M.TECH	ASSISTANT PROFESSOR	CAD/CAM	2 YEARS
22	Mrs. K. ANUSHA RAJ	M.TECH	ASSISTANT PROFESSOR	INDUSTRIAL METALLURGY	2 YEARS
23	Mr. N. RAJA SEKHAR	M.TECH	ASSISTANT PROFESSOR	MARINE ENGG.	1 YEAR
24	Mr. N. SYAM BABU	M.E (Ph.D)	ASSISTANT PROFESSOR	MACHINE DESIGN	4 YEARS
25	RAYALA PRASAD	M.TECH (Ph.D)	ASSISTANT PROFESSOR	MACHINE DESIGN	4 YEARS
26	Mr. VENKATESWARA RAO SARNALA	M.TECH	ASSISTANT PROFESSOR	THERMAL ENGINEERING	1 YEAR
27	Mr. N.SHANMUKH VEERENDRA	M.TECH	ASSISTANT PROFESSOR	THERMAL ENGINEERING	1 YEAR
28	Mr.K.NAGA RAJU	M.TECH	ASSISTANT PROFESSOR	THERMAL ENGINEERING	1 YEAR
29	Mr.G.GOPI CHAND BABU	M.TECH	ASSISTANT PROFESSOR	THERMAL ENGINEERING	2 YEARS
30	Ms.N.SIVA NAGAMANI	M.TECH	ASSISTANT PROFESSOR	MACHINE DESIGN	1 YEAR
31	Mr.K.V.G PRAVEEN	M.TECH	ASSISTANT PROFESSOR	CAD/CAM	3 YEARS
32	Ms.A.HEMA DEVI	M.TECH	ASSISTANT PROFESSOR	MACHINE DESIGN	1 YEAR
33	Mr.P.PAVAN KUMAR	M.TECH	ASSISTANT PROFESSOR	CAD/CAM	1 YEAR

NAAC - SELF STUDY REPORT

34	Mr. T.SUBBA REDDY	M.TECH	ASSISTANT PROFESSOR	CAD/CAM	1 YEAR
35	Mr.K.KARTEEK REDDY	M.TECH	ASSISTANT PROFESSOR	MACHINE DESIGN	2 YEARS
36	Mr.S.RAJA SEKHAR	M.TECH	ASSISTANT PROFESSOR	MACHINE DESIGN	2 YEARS

11. **List of senior visiting faculty:** Mr.C.V.SRI RAM, Professor

12. **Percentage of lectures delivered and practical classes handled (Programme wise) by temporary faculty:** NIL

13. **Student -Teacher Ratio (Programme wise):**

Course	Specialization	Ratio
U.G - B.TECH	Mechanical Engineering	15:1
P.G - M.TECH	Thermal Engineering	12:1

14. **Number of academic support staff (technical) and administrative staff; sanctioned and filled.**

Post	Sanctioned	Filled
Administrative Staff	1	1
Academic Supporting Staff	3	3

15. **Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.**

S.No	Highest Qualification	No. of Faculty
1	Ph.D	2
2	M.Tech (Ph.D)	10
3	M.Tech	24

16. **Number of faculty with ongoing projects from National, International funding agencies and grants received:** Nil

** Applied for grant through the Funding agency SERB with the Project Title “Fabrication, Mechanical Characterization and Tribological (erosive wear) Properties of Carbon fiber & Particulates (Red Mud, fly ash & combination of Red mud & Fly ash) filled Polyester Based Hybrid Composites.” and awaiting for the result.

NAAC - SELF STUDY REPORT

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received: NIL

18. Research Centre /facility recognized by the University: NIL

19. Publications: 66

*a) Publication per faculty:

S.No	Faculty	DESIGNATION	National Journal/Conference	Inter-National Journal/Conference	Avg. Impact Factor
1	Dr. C.Naga Bhaskar	Professor	8	18	3.52
2	Mr. R.Vijay Krishna	Associate Professor	---	05	3.333
3	Mrs. K.Vidya	Associate Professor	---	02	2.623
4	Mr. J.Sampath Suresh	Associate Professor	---	04	3.723
5	Mr. V.Mohan Manoj	Assistant Professor	---	01	2.8
6	Mr.G.S.R.N Malleswara Rao	Associate Professor	---	02	1.103
7	Mr. Ch.Naveen Kumar	Assistant Professor	---	05	3.02
8	Ms. A.Madhuri	Assistant Professor	---	05	3.04
9	Mr. Sk.Abdul Azeez	Assistant Professor	---	04	2.982
10	Mr. Md.Nazeer	Assistant Professor	---	02	2.042

NAAC - SELF STUDY REPORT

11	Mrs. P.Bharathi	Assistant Professor	---	01	5.126
12	Mr.K.Venkateswar a Reddy	Assistant Professor	---	02	2.072
13	Mr. Y.Venkatesh	Assistant Professor	---	01	0.543
14	Mr. N.Syambabu	Assistant Professor	---	05	6.5
15	Mr.K.Naga Raju	Assistant Professor	---	01	2.72

***Monographs:** NIL

***Chapter in Books:** NIL

***Books Edited:** NIL

***Lab Manuals:** 12

***Books with ISBN/ISSN numbers with details of publishers:** NIL

20. Areas of consultancy and income generated: NIL

21. Faculty as members in

a) National committees: NIL

**** Faculty is the life member in the following professional body.**

S.No.	Faculty Name	Professional Body	Membership No.	Member Type
1	Dr. C.Naga Bhaskar	Fellow of Institution of Engineers, India (FIE)	F-112678-0	Life Time
2	Dr. C.Naga Bhaskar	Life Member as Chattered Engineer (C.E)	F-112678-0	Life Time
3	Dr.C.Naga Bhaskar	Life Member of Indian Society for Technical Education (MISTE)	LM16804	Life Time
4	Dr. C.Naga Bhaskar	Life Member of Condition Monitoring Society of India (MCMSI)	LM0600043	Life Time
5	Dr. C.Naga Bhaskar	Fellow of ISME (Indian Society For Mechanical Engineers)	FISME 20161020002	Life Time
6	Mr.V.M.Manoj Gupta	ISTE (Indian Society For Technical Education)	LM100995	Life Time

NAAC - SELF STUDY REPORT

b) International Committees: NIL

** Faculty is the life member in the following professional body.

S.No	Faculty Name	Professional Body	Membership No.	Member Type
1	Dr. C.Naga Bhaskar	IAENG (International Association Of Engineers)	178484	Life Time
2	Mr. R.Vijay Krishna	IAENG (International Association Of Engineers)	177411	Life Time
3	Mr. R.Vijay Krishna	ISRD (International Society for Research and Development)	M4150902760	Life Time
4	Mr.O.N.V.P.Bhagavan	IAENG (International Association Of Engineers)	177459	Life Time
5	Mr. Ch.Naveen Kumar	IAENG (International Association Of Engineers)	176410	Life Time
6	Ms. A.Madhuri	IAENG (International Association Of Engineers)	176409	Life Time
7	Mr.Y.Venkatesh	IAENG (International Association Of Engineers)	177748	Life Time
8	Mr.Sk.Abdul Azeez	IAENG (International Association Of Engineers)	177760	Life Time
9	Mr.N.Syam Babu	IAENG (International Association Of Engineers)	177751	Life Time
10	Mr.K.Mani Kumar	IAENG (International Association Of Engineers)	176824	Life Time

NAAC - SELF STUDY REPORT

		Engineers)		
11	Mr.V.Sri Rama Murthy	IAENG (International Association Of Engineers)	177747	Life Time
12	Mr.J.S.Suresh	IAENG (International Association Of Engineers)	177746	Life Time
13	Mr.V.M.Manoj Gupta	IAENG (International Association Of Engineers)	148172	Life Time
14	Mr.N.Rajasekhar	IAENG (International Association Of Engineers)	177750	Life Time
15	Mr.S.Venkateswara Rao	IAENG (International Association Of Engineers)	177753	Life Time
16	Mr. Ch.Naveen Kumar	ISRD (International Society for Research and Development)	M4150902764	Life Time
17	Ms. A.Madhuri	ISRD (International Society for Research and Development)	M4150902763	Life Time
18	Mr.O.N.V.P.Bhagavan	ISRD (International Society for Research and Development)	M4150902762	Life Time
19	Mrs.K.Anusha Raj	ISRD (International Society for Research and Development)	M4150902820	Life Time
20	Mrs.K.Anusha Raj	IAENG (International Association Of Engineers)	182048	Life Time
21	Mr.K.Mani Kumar	IAENG (International	176824	Life Time

NAAC - SELF STUDY REPORT

		Association Of Engineers)		
22	Mr.N.Syam Babu	ISRD (International Society for Research and Development)	M4150902759	Life Time
23	Mrs.P.Bharathi	IAENG (International Association Of Engineers)	177465	Life Time
24	Mr.Sk.Abdul Azeez	ISRD (International Society for Research and Development)	M4150902907	Life Time

c) **Editorial Boards:** Nil

22. Student projects

a) **Percentage of students who have done in-house projects including inter departmental/Programme:**

Academic Batch	Name of the Course/ Program	% of Students – In-House Projects
2011-2015	UG (B.Tech)	78.9
2012-2016		54.7
2013-2017		In Progress
2014-2018		In Progress
2015-2019		In Progress
2016-2020		In Progress
2014-2016	P.G	100

NAAC - SELF STUDY REPORT

2015-2017	(M.Tech)	In Progress
2016-2018		In Progress

b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies:

Academic Batch	Name of the Course/ Program	% of Students – Outside the Institution Projects
2011-2015	UG (B.Tech)	21.1
2012-2016		45.3
2013-2017		In Progress
2014-2018		In Progress
2015-2019		In Progress
2016-2020		In Progress
2014-2016	P.G (M.Tech)	---
2015-2017		In Progress
2016-2018		In Progress

NAAC - SELF STUDY REPORT

23. Awards / Recognitions received by faculty and students:

➤ Awards / Recognitions received by Faculty:

S.No.	Name of Faculty	Award / Recognition	Awarded By	Year
1	Dr.C.NagaBhaskar	Best Teacher	JNTUK	2010

➤ Awards / Recognitions received by Students:

S.No	Name of Student	Award / Recognition	Position/Prize	Awarded By	A.Y
1	B.Lava Kumar	Fastest Auto Cad	Second	Bapatla Engg. College	2015 - 2016
2	M.Pradeep	Black & White	Third	V.R.S.E	2015 - 2016
3	K.V.S.K. N Sainath	Paper Presentation	First	NRI IT	2015 - 2016
4	B.Tandava V M I Sai	Paper Presentation	Second	NRI IT	2015 - 2016
5	V.Pradeep	Paper Presentation	Second	NRI IT	2015 - 2016
6	M.Lakshmi Harish	Paper Presentation	First	NRI IT	2015 - 2016
7	M.Lakshmi Harish	Model Expo	Second	NRI IT	2015 - 2016
8	G.Naveen	Model Expo	Second	NRI IT	2015 - 2016
9	V.Anand	Long Jump	Third	NRI IT	2015 - 2016
10	V.Pradeep	Srujana'16	First	A.B.V.P	2015 - 2016
11	M.Sai	Lakshya-2K16	First	L.B.R.C.E	2015

NAAC - SELF STUDY REPORT

	Ram	IT			- 2016
12	M.Sai Ram	SKILL FEST- 2016 BUSINESS PLAN	Second	GURU Raghavendra skill Development center	2015 - 2016
13	M.Sai Ram	Srujana'17 - PPT	First	PACE ITS	2016 - 2017
14	M.Sai Ram	SRUJANANKUR A INNOVATIVE MIND	Frist	VIGNAN'S	2016 - 2017
15	M.Sai Ram	SRUJANANKUR A IDEA HUNT	Frist	VIGNAN'S	2016 - 2017
16	M.Sai Ram	Srujana'17 IOT SUITCASE	Frist	PACE ITS	2016 - 2017
17	M.Sai Ram	JIGNASA-17 PPT	SECOND	PSCMR	2016 - 2017
18	M.Sai Ram	YOUR FEST PAPER PRESENTATION	Frist	USHARAM A	2016 - 2017
19	M.Sai Ram	YUVA PPT	Frist	KITS	2016 - 2017
20	M.Sai Ram	SUNRISE 17 PPT	THRID	NRIIT	2016 - 2017
21	M.Sai Ram	AAKARSH PAPER PRESENTATION	First	PPDCET	2016 - 2017
22	M.Sai Ram	SRUJANA'16 WORKING MODEL	Second	ABVP	2016 - 2017
23	M.Sai Ram	ASIST AAHWAN-17 PAPER PRESENTATION	FRIST	NRIIT	2016 - 2017
24	M.Sai Ram	ANUSODHANA START UP IDEA	FRIST	ANUCET	2016 -

NAAC - SELF STUDY REPORT

					2017
25	M.Sai Ram	YAIBHAY PPT	FIRST	St. Ann's CET	2016 - 2017
26	M.Sai Ram	SAMYAK PAPER PRESENTATION	SECOND	KLU	2016 - 2017
27	M.Sai Ram	SAMYAK PROMOTE YOUR PRODUCT	SECOND	KLU	2016 - 2017
28	M.Sai Ram	TECHNOTSAR PAPER PRESENTATION	SECOND	MVR	2016 - 2017
29	M.Sai Ram	IEEE 3D-PRINTING & RAPID PROTOTYPING	FIRST	LBRCE	2016 - 2017
30	M.Sai Ram	SAMYAK INNOVATION	SECOND	KLU	2016 - 2017
31	Lakkoju Nagadurga Rao	POWER LIFTING	THIRD	JNTUK	2016 - 2017

24. List of eminent academicians and scientists / visitors to the department:

S.No	Date	Name of Academician/Scientist/Visitor	Designation	Organization	Purpose of Visit
1	25/01/2017	Dr. V.Ramachandra Raju	Vice - Chancellor Administrative Block	IIIT Nuzvid	To interact with students on Career opportunities with Social Responsibility and Ethical Values.

NAAC - SELF STUDY REPORT

2	28/12/2016	Mr Vinod K. Dasari	Managing Director	Ashok Leyland Limited.	To interact with students on acquiring Higher degree and career opportunities for Mechanical Engineering students in Industries.
3	04/01/2016	Prof. S. S. Rao	Professor	University of Miami, Coral Gables, USA	To interact with students on Engineering Optimization Theory and Practice
4	06/09/2015	Dr. P. Udaya Bhaskar	Professor	JNTU College of Engineering Kakinada	To interact with students on acquiring Higher degree and career opportunities
5	23/08/2014	Mr. Suhas Rane	Director	Siemens India	To interact with students on Career opportunities
6	07/03/2013	Dr. K. Sivaji Babu	Professor	PVPSIT	National Technical Symposium – 2K13

25. Seminars/ Conferences/Workshops organized & the source of funding

NAAC - SELF STUDY REPORT

a) National:

S.No.	Date	Seminars / Conferences/Workshops	Resource Person	Source of Funding
1	23-01-2017 To 26-01-2017	Three day Workshop on CRE-O/CATIA/ANSYS	S.Prasanna Kumar	NRIIT
2	19-12-2016 & 20-12-2016	Two Day National Workshop on NDT	G.VIJAY KUMAR	
3	09-01-2016	Career Opportunities for Mechanical Engineers in Germany	Mr.Jamindar Buddiga	
4	04-01-2016	One Day National Workshop on Engineering Optimization Theory and Practice	Prof. S. S. Rao	
5	28-12-2015	Career Prospectus through GATE	Mrs.Ch.Navata	

b) International: NIL

24. Student profile Programme/course wise:

Academic Batch	Name of the Course/Programme (refer question no. 4)	Applications received	Selected	Enrolled		Course Completed Students	Pass percentage
				*M	*F		
2011 – 2015	UG (B.Tech)	71	71	69	02	53	74.64
2012 – 2016		125	125	115	10	90	72
2013 – 2017		129	129	128	01	In-Progress	In-Progress

NAAC - SELF STUDY REPORT

2014 – 2018		147	147	147	00	In-Progress	In-Progress
2015 – 2019		184	184	184	00	In-Progress	In-Progress
2014 – 2016	PG (M.Tech)	05	05	03	02	4	80
2015 – 2017		04	04	04	00	In-Progress	In-Progress
2016 – 2018		04	04	03	01	In-Progress	In-Progress

*M = Male *F = Female

27. Diversity of Students

Academic Batch	Name of the Course/ Program	% of students from the same state	% of students from other States	% of students from abroad
2011 – 2015	UG (B.Tech)	100 (71)	-	-
2012 – 2016		100 (126)	-	-
2013 – 2017		100 (129)	-	-
2014 – 2018		99.9 (145)	0.01 (2)	-
2015 – 2019		100 (184)	-	-
2014 – 2016	PG (M.Tech)	100 (5)	-	-
2015 – 2017		100 (4)	-	-
2016 – 2018		100 (4)	-	-

NAAC - SELF STUDY REPORT

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Academic Batch	GATE/PGECET	GRE	RRB
2011 – 2015	03	01	---
2012 – 2016	01	01	01

29. Student progression

Student progression	Against % enrolled		
	2011-2015	2012-2016	2013-2017
UG to PG	(6) 9.8%	(2) 1.58%	----
PG to M.Phil	----	----	----
PG to Ph.D.	----	----	----
Ph.D. to Post-Doctoral	----	----	----
Employed	(6) 8.45%	(38) 30.15%	(25)
■ Campus Selection	(6) 8.45%	(6) 4.76%	----
■ Other than Campus			
Entrepreneurship/Self-employment	----	(1) 0.79%	----

30. Details of Infrastructural facilities

a) Library Plinth Area: 33.53 Sq.m

Department	Mechanical Engineering
No of Titles	75
No of volumes	180

b) Internet facilities for Staff & Students:

- 3 systems with LAN Connections with internet speed of 20 Mbps
- 1 Laptop
- Wi-Fi Enabled Campus Connection

b) Class rooms with ICT facility: **YES**

Rooms	Number of Rooms	Facilities Available
No of Class Rooms	08	LCD Projector, Benches, Fans, Chairs, Wi-Fi Connection
No of Tutorial Rooms	02	LCD Projector, Benches, Fans, Chairs, Wi-Fi Connection
Seminar Hall	01	LCD Projector, Benches, Fans, Chairs, Wi-Fi Connection, A.C

NAAC - SELF STUDY REPORT

d) Laboratories:

S.No.	Name of the laboratory	Area (Sq. m)	List of Major Equipment(s)
1	Workshop Technology	91.97	Hand Tools
			Bench Vices
			Carpentry Vices
			Anvil
			Chisels
			Dot Punches
			Scribers
			Snips
			Steel Rules
			Marking Gauges
			Hacksaw
			Cross cut Saw
			Calipers
			Jack Plane
			Wood Rasp File
Try Squares			
Cutting Pliers			
2	Metallurgy	122.63	Microscopes, ,
			Disc Polishing Machines
			Jominey Quench Apparatus
			Muffle Furnace

NAAC - SELF STUDY REPORT

3	Mechanics Of Solids	153.29	Universal Testing Machine
			Compression Test Rig
			Torsion Testing Machine
			Brinell's Hardness Tester
			Impact Testing Machine
4	CAD & Simulation	101.17	Computers
			LCD Projector
5	Thermal Engineering	168.61	Two Stroke Petrol Engine Cut section model
			Four Stroke Diesel Engine Cut section model
			Two Stroke Petrol Engine with Electrical Loading
			Four Stroke Diesel Engine with Mechanical Loading
			Four Stroke 3 cylinder Petrol Engine with Hydraulic Loading
			Four Stroke 1 cylinder Petrol Engine (VCR)
			Multi Stage Reciprocating Air Compressor
			Boiler Models
			Refrigeration Tutor
Air Conditioner (Duct Type)			
6	Fluid Mechanics & Hydraulic Machinery	134.89	Venturi meter & Orifice meter
			Francis Turbine
			Pelton Turbine

NAAC - SELF STUDY REPORT

			Single centrifugal Pump
			Multi stage centrifugal Pump
			Pipe Friction Apparatus
			Impact of Jet on Vanes
			Mouth Piece Apparatus
7	Production Technology	67.44	Arc welding Machine
			Injection Moulding Machine
			Blow Moulding Machine
			Hydraulic Press
			Sand Moulding Tools
			Spot Welding Machine
8	Instrumentation & Metrology	101.17	Depth Gauge
			Vernier Calipers
			Sine bars
			Slip Gauges
			Tool Makers Microscope
			Micrometers
			Surface Plate
			Strain Gauge
			Pressure Gauge
			LVDT
			RTD
			Bore Gauge
9	Machine Tools	202.34	Shaper Machine

NAAC - SELF STUDY REPORT

			Lathe Machines
			All Geared Lathe Machines
			Radial Drilling Machine
			Surface Grinding Machine
			Slotting Machine
			Power Hacksaw
			Bench Grinder
10	Heat Transfer	134.89	Critical Heat Flux Apparatus
			Natural Convection Apparatus
			Forced Convection Apparatus
			Shell & Tube Heat Exchanger
			Composite Slab Apparatus
			Heat Pipe Apparatus
			Stefan Boltzman Apparatus
			Emmissivity Measurement Apparatus
			Thermal Conductivity Apparatus
			Drop wise & Film wise Apparatus
			Parallel & Counter Flow Apparatus

31. Number of students receiving financial assistance from college, university, Government or other agencies

Academic	Course	S C	S T	BC	EB C	BC -E	No. of Student	Financial assistance

NAAC - SELF STUDY REPORT

Year	–						s	from
	UG/P							
	G							
2012 – 2013	UG & PG	26	0	57	22	09	114	Government (Fee Re- imbursement)
2013 – 2014		34	1	101	55	17	208	
2014 – 2015		44	1	132	111	22	310	
2015 – 2016		43	1	54	42	34	374	

32. Details on student enrichment Programmes (special lectures / workshops /Seminar) with external experts:

S. No.	Date	Lecture on	Name of the resource person	A.Y
1	23/09/2016	Study of Mechanical Vibrations in various Structural and Mechanical Applications	Dr.K.Meerasaheb, Professor, ME Dept., JNTUK	2016-2017
2	16/01/2016	Importance of AutoCAD to a Mechanical Engineer	Mr. S.Prasanna Kumar, Managing Director, CAD DESK	2015-2016
3	18/07/2014	Hands on Training of AutoCAD	Mr.B.Prasad, Managing Director, CADD EXPERTS	2013-2014
4	07/11/2013	Hands on Training of AutoCAD	Mr.B.Prasad, Managing Director,	2012-2013

NAAC - SELF STUDY REPORT

			CADD EXPERTS	
--	--	--	-----------------	--

33. Teaching methods adopted to improve student learning:

- Power point presentations & Animated Video lectures are arranged to the students by the concerned faculty.
- Make – up & Remedial classes are conducted to improve the problem solving skills and to improve the academic performance
- Encouraging the students to deliver a seminar on the topics related to subject in the allotted period (Design/Fabrication Project).
- Arranging workshops/guest lecturers to students by eminent personalities from academic institutions and Industry to enhance the knowledge of student
- Arranging Industrial Visits per semester like N.T.T.P.S, KRISHNA Industries, etc.,
- Providing access to JNTUK-COEERD lectures in the college premises
- Providing e-content to the students through Blog Spot (<http://nrimechteam.blogspot.in>)

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

- **NSS activities**
- 5. Encouraging the students to involve as volunteers for conducting blood donation camps. Blood Donation Camp Conducted on 22/9/2016
- 6. Planted Saplings actively in “Vanam-Manam” program under the scheme of A.P. State Govt. on 15/9/2016
- 7. Donated & Established Drinking Water pipe line for one of the Govt. School in Kansanapalli

35. SWOC analysis of the department and Future plans:

Strengths:

- Department has young & highly motivated faculties with good academic experience.
- Supportive working environment among department members

NAAC - SELF STUDY REPORT

- Department is working on outcome base teaching-learning process.
- Well-equipped laboratories.
- Most of the faculty members presented & published papers at several reputed National, International conferences and journals.
- Providing opportunities to get internships for students.
- Certified by ISO 9001:2015 for providing quality technical education.
- Enhancing student performances with Peer teaching and counseling.
- The Department has formed a student association TEAM under which cultural & technical events is organized.
- Soft skills and related training by T&P Cell to raise the employability of the students.

Weaknesses:

- Inadequate collaboration with other universities, industries, foreign institutions.
- Need to improve student publications.

Opportunities:

- Opportunity to perform various experiments in industries for project works in final year.
- Good management with generous attitude in the form of lucrative special care and incentives to attract highly qualified and efficient faculty.
- Availability of National/International Conferences, Seminars, Workshops, etc.,

Challenges:

- To enhance more opportunities for the students placements.
- To enhance Industry oriented training.

Future Plans:

- To enhance number of Industry - Institute Interaction (MOU's) for practical exposure of manufacturing techniques, equipment and employability.
- To enhance number of memberships with professional bodies.
- To get accredited to NAAC & NBA.
- To establish Centre of Excellence in Designing.

NAAC - SELF STUDY REPORT

Evaluative Report of MCA Department

1.Name of the department: Master of Computer Applications

2.Year of Establishment :2009

3.Names of Programmes /Courses offered:

Sl.no	Name of the Programme	UG/PG	Year of Establishment
1	M.C.A.	PG	2009

4.Names of Interdisciplinary courses and the departments/units involved

Sl.No	Course	Department
1	Discrete Mathematical structures and Graph Theory	Science & Humanities Department
2	Probability & statistical applications	
3	Accountancy &Financial Management	
4	English Language and Communication Skills lab	
5	Organizational Structures and Human Resource Management	
6	Optimization techniques	
7	Digital Logic and Computer Organization	Electronics and Communication Engineering Department
8	Digital Logic and computer	

NAAC - SELF STUDY REPORT

	organization Lab	
--	------------------	--

5. Annual/ semester/choice based credit system (programme wise):

Sl.No	Course	semester/choice based credit system
1	M.C.A	Semester and choice based system

6. Participation of the department in the courses offered by other departments

Sl. No	Course	Department	Credits	Periods t/lab.
1	DataBase Management System	Computer Science and Engineering Department	3	5
2	Design and Analysis of Algorithms	Computer Science and Engineering Department	3	5
3	Management Science	Mechanical Engineering Department	3	5
4	IT Workshop	B.Pharmacy	3	3
5	Unix Programming	Computer Science and Engineering Department	3	5
6	Software Testing Methodologies	Computer Science and Engineering Department	3	5
7	Unix Programming lab	Computer Science and Engineering Department	2	3
8	Software Testing Methodologies Lab	Computer Science and Engineering Department	2	3

7. Courses in collaboration with other universities, industries, foreign institutions, etc.-NIL-

- **Certification Courses in collaboration with other universities, industries, foreign institutions etc**

S.No	Name of the Course	Industry/Company
1	Fundamentals of the java programming „Language ,java SE 6, 1.1 English Student kit	M/s. Oracle University

NAAC - SELF STUDY REPORT

2	Java Programming Language, java SE 6, 1.1	
3	Oracle Database 11g Program with PL/SQL 2.0	
4	Web Component developement with Servlets and JSPs,Java	
5	Java SE 7 Programming	
6	Microsoft Technology and Associate Training(MTA)	Microsoft Ed-Vantage Programme
7	Course on Android, Java	APSSDC

8.Details of courses/ programmes discontinued (if any) with reasons :
Nil

9.Number of Teaching posts

	Sanctioned (As Per AICTE)	Filled
Professors	1	-
Associate	2	1
Assistant	6	14

10.Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Sl.No	Name	Qualification	Designation	Specialization	No.of Years of Experience
1	Dr.K.Krishna Rao	Ph.D	Assoc.professor	Mathematics	23
2	K.ChandraMouli	M.Tech	Asst.Professor	Computer Science &Engg	6

NAAC - SELF STUDY REPORT

3	K.UdayaSree	M.Tech	Asst.Profess or	Computer Science &Engg	15
4	L.Kavitha	M.Tech	Asst.Profess or	Computer Science &Engg	5
5	G.Sireesha	M.Tech	Asst.Profess or	Computer Science &Engg	1
6	S.Harsha	M.C.A	Asst.Profess or	Computer Science &Engg	10
7	V.Aparna	M.C.A	Asst.Profess or	Computer Science &Engg	6
8	SK.Mastanva li	M.C.A	Asst.Profess or	Computer Science &Engg	3
9	P.Prabhu Kiran	M.C.A	Asst.Profess or	Computer Science &Engg	9
10	M.Kranti Kumar	M.C.A	Asst.Profess or	Computer Science &Engg	1
11	U.Naresh	M.C.A	Asst.Profess or	Computer Science &Engg	4
12	T.Madhu	M.C.A	Asst.Profess or	Computer Science &Engg	3
13	CH.Ganesh kumar	M.C.A	Asst.Profess or	Computer Science &Engg	1
14	A.Sri	M.C.A	Asst.Profess	Computer	2

NAAC - SELF STUDY REPORT

	Lakshmi		or	Science & Engg	
15	R.Sai RAM	M.C.A	Asst.Profess or	Computer Science & Engg	1

11. List of senior visiting faculty: Nil

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: Nil

13. Student -Teacher Ratio (programme wise)

Programme: PG [M.C.A] : 1:12

14. Number of academic support staff (technical) and administrative staff; sanctioned and Filled

Sl.No	Support Staff	Sanctioned	Filled
1	Technical staff	01	01
2	Administrative Staff	01	01

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

Sl.No	No. of Faculty With Ph.D	No. of Faculty With PG (M.Tech)
1	1	4

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Nil

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received: -NIL-

- conference grant from DST as per the following Details

S.No	Name Of Faculty	Project Description	Funding Agency	Status of grant received
1	Dr.K.V.Sambasiva Rao	To conduct a two day national conference on next generation	DST	Amount Sanctioned Rs.1,00,000

NAAC - SELF STUDY REPORT

		computing		
--	--	-----------	--	--

18. Research Centre /facility recognized by the University: No

Though department is not officially recognized as a research center, some of our faculty are recognized as supervisors by different universities, so college is providing facilities for the supervisors and their research scholars to pursue their research. Here is the list of the research scholars and their supervisors.

S.No	Name Of Supervisor	Name Of the Scholar	University	Degree	Area
1	Dr.K.V.Sambasiva Rao	Ms.K.S.Vijaya Lakshmi	JNTUK,Kakinada.	Ph.D	CSE
2	Dr.K.V.Sambasiva Rao	Mr.B.Jayanaga	Acharaya Nagarajuna University.	Ph.D	CSE
3	Dr.K.V.Sambasiva Rao	Ms.M.Rani.	Dravidin University.	Ph.D	CSE
4	Dr.K.V.Sambasiva Rao	Mr.S.Ravikiran	JNTUK,Kakinada.	Ph.D	CSE

19. Publications:

a) Publication per faculty

Sl.No	Faculty Name	National Journal	International Journal	National Conference	International Conference	Impact factor
1	Dr.K.Krishna Rao	-	4	-	-	3.7
2	Mr. K. Chandramouli	-	3	1	-	3.6
3	K.Udaya Sri	-	3	-	-	3.8
4	Mrs. L. Kavitha	-	3	1	-	4.0
5	Mrs.G.Sireesha	-	2	-	-	3.7

NAAC - SELF STUDY REPORT

6	S.Harsha	-	-	-	-	-
7	V.Aparna	-	-	-	-	-
8	SK.Mastanvali	-	-	-	-	-
9	P.Prabhu Kiran	-	-	-	-	-
10	M.Kranti Kumar	-	-	-	-	-
11	U.Naresh	-	-	-	-	-
12	T.Madhu	-	-	-	-	-
13	CH.Ganesh kumar	-	-	-	-	-
14	A.Sri Lakshmi	-	-	-	-	-
15	R.Sai Ram	-	-	-	-	-

b) Number of papers published in peer reviewed journals (National /International) by faculty and students: 17

c) Number of publications listed in International Databases: Nil.

d) Monographs: Nil.

e) Chapter in Books: Nil.

f) Book Edited: Nil.

g) Book with ISBN/ISSN numbers with details of publishers:01

h) Citation Index: Nil.

i) SNIP: Nil.

j) SJR: Nil.

k) Average Impact factor: 3.76

l) h- Index: Nil.

l)laboratory manuals:13

20.Areas of consultancy and income generated:

NAAC - SELF STUDY REPORT

Sl.No	Type of Consultancy Provided	Company Name	Income generated	
			2015-16	2016-17
1	Conducting Online Examinations	TCS-ION	35,00,000	32,00,000

- 21.Faculty as members in**
- a) National committees: Nil
 - b) International Committees: Nil
 - c) Editorial Boards: Nil

22.Student projects

- a)Percentage of students who have done in-house projects including inter departmental/programme

YE A R	TOTAL NO OF STUDENT S	INHOUS E	INHOUSE %	OUTHOUS E	OUTHOUSE %
2009-2012	42	42	100%	-	-
2010-2013	53	53	100%	-	-
2011-2014	56	56	100%	-	-
2012-2015	45	45	100%	-	-
2013-2016	17	17	100%	-	-

- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies – Nil.

23. a)Awards / Recognitions received by faculty and students

Faculty:-Nil

Students:

Sl.No	Name of the student	Award/Recognition	Awarded by	Year
1	N.Siavanganeyulu	Participation Certificate	Prasad.V.Potluri Siddartha Institute of	2015

NAAC - SELF STUDY REPORT

			Technology	
2	N.Siavanganeyulu	2 nd PRIZE	Prasad.V.Potluri Siddartha Institute of Technology	2015
3	N.V.SivaAnjaneyulu	Participation Certificate	Andhra Loyala College	2014
4	S.VenkataKonda Reddy&K.Rajsekhar	Jury Appreciation Certificate	Gudlalleru Engineering College	2013
5	P.ManojSai Ram Chand	Secured 2 nd Prize in “Smart Dust”	Gudlalleru Engineering College	2013
6	K.Raja Sekhar	Participation Certificate.in National level Paper Presentation Contest	Gudlalleru Engineering College	2013
7	I.Durga Srinivasarao	2 nd Prize in National level Paper Presentation Contest	Gudlalleru Engineering College	2013
8	V.Himaja	Participation Certificate	IBM “The Great Mind Challenege - 2011”	2011
9	Shaik Bilal Ahmed	Participation Certificate	IBM “The Great Mind Challenege - 2011”	2011

Sports:

Sl.No	Name of the student	Award/Recognition	Event	Year
1	B.Siva	Participation Certificate	air pistol tournament at inter university college competitions held	2014

NAAC - SELF STUDY REPORT

			at Punjab university.	
--	--	--	-----------------------	--

24 . List of eminent academicians and scientists / visitors to the department

Sl.No	Name of the Speaker	Topic	Date
1	Mr.D.Rama Krishna,MD,Efftronics systems,Pvt,Ltd.vijayawada	Next Generation Systems	23/12/2016
2	Capt.Dr.S.Santhosh Baboo,professor,DG Vaishnav college,Chennai	Cluster based segmentation methods for medical image	23/12/2016
3	Dr.B.V.Subba Rao,Professor,PVPSIT,Vijayawada	Prediction of crop intelligence attributes	23/12/2016
4	Mr.K.Dheeraj, Promoter ,Gurukul.	Significance of IOT & Artificial intelligence.	23/12/2016
5	Mrs.Layanaya,APSSDC.	Current Trends in IOT	23/12/2016
6	Mrs.Alekya,APSSDC.	Current Trends in IOT	23/12/2016
7	Mr.Veer Anjaneya Nagaraju,Big data minds	3 days Work shop on Hadoop and Big data analytics	12/9/2016 to 14/9/2016
8	Mr.Madhu Parvathaneni Entrepreneur / IoT Developer ORL Industries	3 days Work shop on IOT.	1/8/2016 to 3/8/2016
9	Mr.M.Ram Mohan,Cronux Technologies,Hyderabad	Seminar on SAP	2/4/16
10	Mr.Ch.Sai Sateesh.	Seminar on Malware Technology	4/3/2016 to 5/3/2016
11	Mr.Nivas,Team Campus Connect,Infosys.	Opportunities in present IT Industry	30/07/2016

NAAC - SELF STUDY REPORT

12	Mr.Venkat Ramana Kuruhuri,Associate Vice President-HR.	Focus Insight Innovation	28/04/2015
13	Mr.Satya Thopalli,HR-Campus Recruitment.	Emerging Technologies	06/10/2014
14	Mr.Vijayan Srinivas,Zen3 Infosolutions(India)Limited.	Latest Trends in IT	22/11/2014
15	Mr.Durga Prasad,Recruitment HR,Mahindra Satyam	How to be best suited into IT	05/05/2011

25.Seminars/ Conferences/Workshops organized the source of funding

a) National b) International

Sl.No	Seminars/Conferences/Workshops	Academic Year	Source of funding
1	National Conference on Next generation Computing.	2016-17	DST
2	Seminar on Graph Theory Applications	2016-17	Management
3	Seminar on Data Fusion In Big Data	2016-17	Management
4	Seminar on Decision Support Systems	2016-17	Management
5	Seminar on Leader Ship Qualities	2016-17	Management
6	Seminar on Ethical Hacking.	2016-17	Management
7	Seminar on SAP.	2016-17	Management
8	Seminar on Malware Technology.	2016-17	Management
9	3 days Workshop on Hadoop and Big Data analytics.	2016-17	Management
10	3 days Workshop on IOT.	2016-17	Management
11	Faculty development program	2015-16	Management
12	Seminar on Industry Requirements	2015-16	Management
13	Seminar on Computer Applications	2015-16	Management
14	National Conference on Data Mining and emerging techniques.	2012-13	Management

NAAC - SELF STUDY REPORT

15	Faculty development program on Teaching Methodologies.	2012-13	Management
16	Faculty development program on JAVA.	2012-13	Management

26. Student profile programme/course wise:

Name of the course/programme:MC A A.Y.	Applications received	Selected	Enrolled		Pass Percentage
			M	F	
2009-2012	43	43	23	20	95.24
2010-2013	58	58	42	16	90.57
2011-2014	57	57	36	21	87.70
2012-2015	47	47	32	15	95.70
2013-2016	17	17	7	10	64.70

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
MCA	100	Nil	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? Nil.

29. Student Progression

Student progression	%			
	2012	2013	2014	2015
UG to PG	-	-	-	-
PG to M.Phil.	Nil	Nil	Nil	Nil
PG to Ph.D.	Nil	Nil	Nil	Nil

NAAC - SELF STUDY REPORT

Employed • Campus selection(CS)	-	20.68(CS)	24.56(CS) 3.5(OCS)	17.02(CS) 2(OCS)
------------------------------------	---	-----------	-----------------------	---------------------

30. Details of Infrastructural facilities

a) **Department Library:** Plinth Area: 52 sq. mts

Department	MCA
No.of Titles	25
No.of Volumes	35
No.of Printed National Journals	12
No.of Printed International Journals	02
E-Journals	Springer,IEEE
Video Lectures	NPTEL(http://www.192.168.4.3/ntpl)

b) **Internet facilities for Staff & Students: Yes**

- Wi-fi enabled in Campus.
- Internet Speed of 10 Mbps 1:1
- BSNL Leased Line, 20 Mbps Broad Band unlimited.
- 15 Mbps Orange net are available.

b) **Class rooms with ICT facility - Yes**

Room Type	No.of Rooms	Facility Available
Lecture Rooms	3	LCD Projectors ,Computer and Internet Facility
Tutorial Rooms	1	

c) **Laboratories**

Lab Description	Area (in Sq.mts)	No.Of.Systems
Database management systems	100 Sq.m	70

31.Number of students receiving financial assistance from college, university, Government or other agencies

NAAC - SELF STUDY REPORT

Category	2015-16	2014-15	2013-14	2012-13
Government –SC Corporation	4	3	3	1
Government –ST Corporation	0	0	0	0
Government –BC Corporation	11	20	31	39
Government –EBC Corporation	10	28	48	66
Government –Minority Corporation	3	7	7	6
others	1	0	0	0
Total	28	58	89	112

32. Details on student enrichment programmes (special lectures / workshops /Seminar) with external experts

Sl.No	Name of the Speaker	Topic	Date
1	Mr.Veer Anjaneya Nagaraju,Big data minds	3 days Work shop on Hadoop and Big data analytics	12/9/2016 to 14/9/2016
2	Mr.Madhu Parvathaneni Entrepreneur / IoT Developer ORL Industries	3 days Work shop on IOT.	1/8/2016 to 3/8/2016
3	Mr.M.Ram Mohan,Cronux Technologies,Hyderabad	Seminar on SAP	2/4/16
4	Mr.Ch.Sai Sateesh.	Seminar on Malware Technology	4/3/2016 to 5/3/2016
5	Mr.Nivas,Team Campus Connect,Infosys.	Opportunities in present IT Industry	30/07/2016
6	Mr.Venkat Ramana Kuruhuri,Associate Vice President-HR.	Focus Insight Innovation	28/04/2015
7	Mr.Satya Thopalli,HR-Campus Recruitment.	Emerging Technologies	06/10/2014
8	Mr.Vijayan Srinivas,Zen3	Latest Trends in IT	22/11/2014

NAAC - SELF STUDY REPORT

	Infosolutions(India)Limited.		
9	Mr.Durga Prasad,Recruitment HR,Mahindra Satyam	How to be best suited into IT	05/05/2011

33 .Teaching methods adopted to improve student learning

- 1.The students are provided with state of the art infrastructure, technology and equipment required to carry on the teaching process like NPTEL Video Lectures in digital Library
2. Workshops on new Technologies are conducted to provide hands on experience in the latest technologies in computer science field.
3. Training for campus placement and aptitude, English labs for effective communication, seminars by in-house faculty and guest speakers etc.
4. Teachers are encouraged to attend Faculty development programmes to upgrade their skills with the latest industry trends .

34.Participation in InstitutionalSocialResponsibility(ISR) and Extension activities

Strengthening practical experience for students in universities is essential to move social responsibility from theoretical base to effective change.

ISR	Year's	Extension Activities	Year's
Relief fund during National Calamities like Uttaranchal flood	2013	Blood Donation Camp	2015,2016
Women awareness programme	2016	Blood Grouping Camp	2015,2016
Awareness about diseases	2016	Educating slum children	2011,2012,2016

NAAC - SELF STUDY REPORT

and Precautions			
Organizing Medical Checkup Camps	2011,2012,2016	Sensitization of school children towards Basic Science	2011,2012,2016
Health and hygiene awareness Programme	2011,2012,2016		

- These activities are conducted by the Institution and the Department on regular basis and all the Students and Faculty of the Department participate in them.

35.SWOC analysis of the department and Future plans

Strengths

- Availability of well qualified and experienced faculty.
- Well equipped laboratories with latest systems and required software.
- Excellent results with good placements
- Quality final year projects
- Well Disciplined students
- Strong professional body (CSI) with consistent track records of success

Weaknesses

Most students are from rural background

- Journal Publications should be improved
- Need to be improve entrepreneurship intelligence

Opportunities

- Academic Autonomy and Functional Autonomy so as to cater the need of industries by continuously updating the curriculum and facilities with the changing demands of market: Deemed University, centre of excellence.

NAAC - SELF STUDY REPORT

- Allowing students to participate AP State's Skill Development Program to enhance technical skills to develop mobile apps
- Entrepreneurship Development Centre to cater the need of entrepreneurs
- Projects with Industry Govt. Organizations leading to R & D centre with the Institute.
- To explore new horizons in research work/studies

Challenges :

- Less employment opportunities
- Lack of Academic Autonomy: Dependence upon traditional curriculum.

NAAC - SELF STUDY REPORT

Evaluative Report of Science & Humanities Department

1. Name of the Department : **Science & Humanities**
2. Year of Establishment : **2008**
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) :

S.NO.	COURSE	SPECIALIZATION	YEAR OF ESTABLISHMENT
1	UG - B. Tech	ECE	2008
2	UG - B. Tech	CSE	2008
3	UG - B. Tech	EEE	2008
4	UG - B. Tech	IT	2008
5	UG - B. Tech	CIVIL	2009
6	UG - B. Tech	MECH	2011

4. Names of Interdisciplinary courses and the departments/units involved:

S.NO.	COURSE/SUBJECT	DEPARTMENT
1	Computer Programming	CSE
2	IT Workshop	IT
3	Engg. Mechanics	MECH
4	Engg. Workshop	MECH
5	Network Analysis	EEE
6	Electrical Circuit Analysis-1	EEE

5. Annual/ semester/choice based credit system (programme wise)

NAAC - SELF STUDY REPORT

- **UG: B.Tech** – ECE, CSE, IT, EEE, CIVIL, MECH – Semester Wise Credit System

6. Participation of the department in the courses offered by other departments

S.NO.	COURSE/SUBJECT	DEPARTMENTS OFFERED
1	Probability and Statistics	CIVIL,CSE, IT, MCA
2	Mathematical Foundation for Computer Science/ Discrete Mathematics	CSE, IT, MCA
3	Operations Research	Mech, MCA
4	Complex variables & Statistical Methods	EEE
5	Environmental Sciences	ECE
6	Managerial Economics & Financial Accountancy/ Accountancy	CIVIL, EEE, MECH, ECE, CSE, IT, MCA
7	Managerial Sciences	CIVIL, EEE, MECH, ECE, CSE, IT

7. Courses in collaboration with other universities, industries, foreign institutions, etc. : NIL

8. Details of courses/programmes discontinued (if any) with reasons : NIL

9. Number of Teaching posts

POST	SANCTIONED	FILLED
Professors	3	3
Associate Professors	4	4
Asst. Professors	45	45

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

S.No.	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
1	Dr.MVN SARMA	Ph.D.	Professor	Economics	35	8
2	Dr.D.KAILASA RAO	Ph.D.	Professor	Economics	38	---
3	Dr. C.V.N. RAO	Ph.D.	Professor	Chemistry	42	3
4	Dr.K.V.B.REDDY	Ph.D	Assoc. Prof.	Physics	20	----
5	Dr.L.VIJAYALAKSHMI	Ph.D	Assoc. Prof.	Physics	11	----
6	M.BABU PRASAD	M.Sc, M.Phil	Assoc. Prof.	Mathematics	26	----
7	Dr.SK.Salma Begum	Ph.D	Assoc. Prof.	Physics	8	----
8	D.SRINIVASULU	M.Sc,M.Phil	Asst.Prof	Mathematics	13	-----
9	K.V.PAVAN KUMAR	M.Sc,MBA	Asst.Prof	Mathematics	12	-----
10	CH.S.SUBRAHMANYAM	M.Sc,MBA	Asst.Prof	Mathematics	12	-----
11	D.VIJAYAKUMAR	M.Sc,M.Tech	Asst.Prof	Mathematics	11	-----
12	P.RAJASEKHAR	M.Sc,M.Phil	Asst.Prof	Mathematics	9	-----
13	A.SOMBABU	M.Sc,M.Phil	Asst.Prof	Mathematics	13	-----
14	P.VIJAYAKUMAR	M.Sc,M.Phil	Asst.Prof	Mathematics	10	-----
15	CH.CHANDRAKALA	M.Sc,M.Phil	Asst.Prof	Physics	14	-----
16	G.KRISHNAPRIYA	M.Sc,M.Phil	Asst.Prof	Physics	15	-----
17	Y.SURYANARAYANA	M.Sc	Asst.Prof	Physics	8	-----
18	M.S.SWARNAPUSHPA	M.Sc	Asst.Prof	Chemistry	12	-----
19	G.PURNACHANDRARAO	M.Sc	Asst.Prof	Chemistry	10	-----
20	Y.MADHAVI	M.Sc,M.Phil	Asst.Prof	English	14	-----
21	R.SRIDEVI	MA	Asst.Prof	English	9	-----
22	A.NEERAJAPADMA	MA	Asst Prof	English	7	----
23	D.RADHIKA	MA,M.Phil	Asst.Prof	English	9	-----
24	T.SREELATHA	M.Sc,M.Phil	Asst.Prof	English	22	-----
25	G.SRIDEVI	M.Sc,M.Phil	Asst.Prof	English	21	-----
26	I.DATTA SRAVANI	MA	Asst.Prof	English	5	-----
27	M ANURADHA	MA	Asst.Prof	English	18	-----
27	T.VIJAYA SRI	MA	Asst.Prof	English	3	-----
28	B.SATISH	MA	Asst.Prof	English	2	-----
29	M.KOTESWARA RAO	M.Com	Asst.Prof	Accounts	39	-----
30	B.V.S.PRASAD	M.Sc,M.Phil	Asst.Prof	English	14	-----

NAAC - SELF STUDY REPORT

31	G.ALEKHYA	M.Sc	Asst.Prof	Environmental Sciences	4	-----
32	D.NAGA RAJESH	MBA	Asst.Prof	Accounts	7	-----
33	G.EDWARD RAJU	MA	Asst.Prof	English	14	-----
34	B.N.Anjaneya Murthy	M.Sc	Asst.Prof	Mathematics	26	-----
35	K.Madhavi	M.Sc, M.Phil	Asst.Prof	Mathematics	12	-----
36	M.Chinni	M.Sc, M.Phil	Asst. Prof	Chemistry	8	-----
37	B.Keerthi Sugandhi	M.Sc	Asst. Prof	Chemistry	4	-----
38	D. Rajasekhar	MBA	Asst. Prof	Accounts	5	-----
39	V.Nagababu	MBA	Asst. Prof	Accounts	8	-----
40	P.Anitha	M.Sc	Asst. Prof	Statistics	1	-----
41	A.Nirmala	M.Sc	Asst. Prof	Mathematics	5	-----
42	Y.Ravibabu	M.Sc	Asst. Prof	Mathematics	1	-----
43	P.Mohana Padma	M.Sc	Asst. Prof	Mathematics	6	-----
44	P.Sudhaswarna Kumari	MA	Asst. Prof	English	8	-----
45	T.Geetha	M.Sc	Asst. Prof	Mathematics	3	-----
46	N.Srinadh	M.Sc	Asst. Prof	Mathematics	6	-----
47	Ch.Umamaheswari	M.Sc	Asst. Prof	Mathematics	6	-----
48	L.Sireesha	M.A	Asst. Prof	English	1	-----
49	D.Rajani	MA	Asst. Prof	English	11	-----
50	V.Shanthi	M.Sc	Asst. Prof	Statistics	4	-----
51	K.Prasanthi	MA	Asst. Prof	English	4	-----
52	G.Sai Roja	M.Sc	Asst. Prof	Physics	1	-----

11. List of senior visiting faculty : **NIL**

12. Percentage of lectures delivered and practical classes handled(programme wise) by temporary faculty; **NIL**

13. Student -Teacher Ratio (programme wise): **15:1**

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

	POST	SANCTIONED	FILLED
Administrative staff		02	02
Academic Support Staff		03	03

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG. Ph.D : **6** M.Phil: **12** , PG (M.Sc/M.Com/MBA/MA): **34**

Highest Qualification	Professor	Associate Professor	Assistant Professor	Total
Ph. D	03	03	----	52
M.Phil	00	01	11	
PG(MA/M.Sc/MBA/M.Com)	00	01	34	

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: **NIL**

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received : **NIL**

18. Research Centre /facility recognized by the University:

19. **PUBLICATIONS:**

No.	Name	Designation	Journals Published		Conferences Attended		Avg.Impact Factor
			National	International	National	International	
1	Dr.MVN SARMA	Professor	39	03	32	03	-----
2	Dr.D.KAILASA RAO	Professor	06	04	06	04	-----
3	Dr.C.V.N.RAO	Professor	16	23	-----	10	0.5073
4	Dr.KVB REDDY	Assoc. Professor	-----	03	-----	-----	0.483
5	Dr.L.VIJAYALAKSHMI	Assoc. Professor	----	07	-----	-----	1.9058
6	Dr. K.KRISHNA RAO	Assoc. Professor	-----	04	-----	-----	2.31
7	M.BABU PRASAD	Assoc Professor	-----	04	04	-----	1.5575
8	D.SRINIVASULU	Asst. Professor	----	07	02	-----	3.003
9	CH.S.SUBRAHMANYAM	Asst. Professor	-----	-----	03	-----	-----
10	D.VIJAYAKUMAR	Asst. Professor	-----	-----	01	-----	-----
11	P.RAJASEKHAR	Asst. Professor	-----	-----	01	-----	-----
12	A.SOMBABU	Asst. Professor	-----	-----	01	-----	-----
13	P.VIJAYAKUMAR	Asst. Professor	-----	-----	01	-----	-----
14	Y.MADHAVI	Asst. Professor	-----	01	02	-----	-----
15	A.NEERAJAPADMA	Asst. Professor	-----	01	02	-----	-----
16	T.SREELATHA	Asst. Professor	-----	01	01	-----	-----
17	R.SRIDEVI	Asst. Professor	-----	01	01	-----	-----
18	BVS PRASAD	Asst. Professor	----	-----	01	-----	-----
19	I.DATTA SRAVANI	Asst. Professor	-----	-----	01	-----	-----
20	T.VIJAYA SRI	Asst. Professor	-----	-----	01	----	-----

- Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- Monographs-**NIL**

S.NO	NAME	DESIGNATION	NO. OF BOOKS EDITED/PUBLISHED
1	Dr.MVN SARMA	PROFESSOR	06
2	Dr.D.KAILASA RA	PROFESSOR	10
3	D.SRINIVASULU	ASST.PROFESSOR	01

20. Areas of consultancy and income generated: NIL

21. Faculty as members in

a) National committees b) International Committees c) Editorial Boards...

Note: The following faculty are member/Life member in different associations.

S.NO.	NAME OF THE FACULTY	MEMBER IN
1	Dr. M V N SARMA	<ul style="list-style-type: none"> ◆ Life member in Indian Economic Association ◆ Life member in AP Economic Association
2	Dr. CV NAGESWARA RAO	<ul style="list-style-type: none"> ◆ Fellow, Indian Chemical Society, India. ◆ Member (MRSC), Royal Society of Chemistry, U.K. ◆ Member, Society of Environmental Toxicology & Chemistry (SETAC), USA ◆ Life Member, Indian Science Congress Association, India. ◆ Life Member, Indian Association of Nuclear Chemists and Allied Scientists, India. ◆ Life Member, Association of British Council Scholars, A.P., India.
3	Dr. D. KAILASA RAO	<ul style="list-style-type: none"> ◆ Life member in Indian Economic Association Life member in AP Economic Association
4	M.BABU PRASAD	AP SOCIETY FOR MATHEMATICAL

		SCIENCES
5	D.SRINIVASULU	AP SOCIETY FOR MATHEMATICAL SCIENCES

22. Student projects

- a) Percentage of students who have done in-house projects including inter departmental/programme: NIL
- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies: NIL

23. Awards / Recognitions received by faculty and students

Sl.No	NAME OF THE FACULTY	AWARD
1	Dr.D.KAILASA RAO	a. Received Best Teacher Award from Government of Anhra Pradesh during 2005. b. Received Best Teacher Award from Kanthi Social Organization, Vijayawada 2006 c. Received Mahatma Gandhi Gold Medal National Award – 2014 for educational and Service Activities. d. Received Dr. Abdul Kalam Gold Medal National Award – 2015 for outstanding Research and Educational Activity. e. Received Vidya Ratna Award from Social Needs Education and Health Association (SNEHA) State Level Award, Tirupati f. . Attended duty without taking any leave including Casual Leave for 23 years and received appreciation from the Management of Sarada College.
2	Dr.L.VIJAYALAKS HMI	* GOLD MEDALIST IN M.Sc, ANU
3	M.BABU PRASAD	* GOLD MEDAL FOR OUTSTANDING PERFORMANCE IN B.Sc, ALC, VIJAYAWADA * Prof. S.N.RAMASWAMY SILVER MEDAL FOR BEST OVERALL PERFORMANCE IN B.Sc *CHITTIKALA KONDAVEETI PRIZE FOR BEST ALL ROUND STUDENT IN B.Sc. * FIRST PRIZE IN I B. Sc .

	* FIRST PRIZE IN II B. Sc .
--	-----------------------------

24. List of eminent academicians and scientists / visitors to the department: NIL

25. Seminars/ Conferences/Workshops organized & the source of funding a) National : NIL

b) International: NIL

26. Student profile programme/course wise:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	

*M = Male *F = Female

Details in Core Departments

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
CIVIL	100%	NIL	NIL
EEE	100%		
MECH	100%		
ECE	100%		
CSE	100%		
IT	100%		

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? **NA**

29. Student progression

Student progression	Against % enrolled
UG to PG	NA
PG to M.Phil.	
PG to Ph.D.	
Ph.D. to Post-Doctoral	
Employed	
<ul style="list-style-type: none"> • Campus selection • Other than campus recruitment 	
Entrepreneurship/Self-employment	

30. Details of Infrastructural facilities a) Library:

Central Library

b) Internet facilities for Staff & Students: YES

c) Class rooms with ICT facility : YES

d) Laboratories:

Name of the Lab	Shared/ Exclusive	Labs Conducting	Floor Area Sq.mt.	Equipment
English	Exclusive	Communication Skills Lab	100	60 Systems, Globerina Software (JNTUK), Fundamental course in soft skills (APHEC)
Physics	Exclusive	Physics		Spectrometer - 7 Travelling Microscope with Micrometer heads. -8 Melde's Apparatus. -6 Stewart & Gee's Apparatus: -6 Battery Eliminator: 2 to 12 volts Dc at 2 amp-15 Compass Box. Cat No:

			159	<p>6040-9 Tuning Forks: Set of 8 Cat No: 5000-12 DC Ammeters: 0-3 Amps. Cat No: 7286-6 Retort Stand: with retort clamp and boss head-6 Sonometer-8 Electro Magnet with Step Down Transformer-4 Slotted weights: Iron 5 × 500 gm. Black painted-8 Torsional pendulum 5 “ dia, brass C.P-4 Vernier Calipers: IME type-10 Spherometer-9 Screw guage: 25 mm size, 1mm pitch-10 Slotted weights: Brass 5 × 50 gr.-6SETS Plug Key 1 Way-14 Commutators four way , round-4 Rheostat: Grooved type 12” long, 30 ohms, 2.8 amps-8 Physical Balance Model No. p-1-1 Analytical Weight box 100 gr, brass weights-8 Meter Scales, wooden- 8 Half- meter scales, Wooden-12 Rough Balance 4 kg capacity-1 Tuning forks. Set of 8 range England-4 Rubber hammers-10 Brass wire-100 gr. D.C.C. wire-500 gr.</p> <p>Slit case for sodium vapour lamp-2 Slit case for mercury vapour lamp-2 E.D.F.Prism 32 × 32 mm -4 Diffraction grating:</p>
--	--	--	-----	--

				<p>15000 L.P.I-7 Sodium vapour lamp 35 watts-2 Mercury vapour lamp 160 watts-2 Wedge plates 3"× 1" size-4 Plano convex lens. 60mm dia, 100 cm f.1-4 Digital stop watch-6 Function generator: digital -4 5 decade resistances box -12 5 decade inductance box-6 5 decade capacitance box-10 Regulated power supply -8 Digital multimeters-14 Aspirator bottle with fittings-9 Beaker 100ml-4 Beaker 250 ml-10 Measuring cylinder 100ml-22 Steel wire-100 gm Copper wire -100gm Stainless steel wire- 100gm Newton's rings lens set-4 sets Magnifier cum torch-4 Spirit level , brass 2" long-6 Pendulum bob 1" dia, brass-6 Weights 50 gm to 2 kg- 1 set</p>
Chemistry	Exclusive	Chemistry		<p>As per JNTUK Syllabus LABORATORY APPARATUS</p> <ol style="list-style-type: none"> 1. Burettes Borosil glass 2. Conical flasks 250 ml. – Borosil

			182	<ol style="list-style-type: none"> 3. Pipettes 10 ml. 4. Glass Rods 5. Beakers 100 ml – Borosil 6. Beakers 250 ml – Borosil 7. Colorimeters - cuvettes 8. Balance electronic 9. Calamel electrodes 10. Platinum electrodes 11. pH electrodes (unbreakable – plastic) 12. Hot Plate 13. Potentiometers 14. Conductometers 15. Volumetric Flask-100ml 16. Volumetric Flask-1litre 17. Volumetric Flask-2litre 18. Measuring cylinders 19. Washbottles 20. Beakers 1000 ml - Borosil 21. Burette stands 22. pH meters 23. Fillers 24. Spatulas 25. Glass funnels
--	--	--	-----	--

31. Number of students receiving financial assistance from college, university, government or other agencies:

ACADEMIC YEAR	NO. OF STUDENTS FROM AP GOVT.
2012-13	381
2013-14	446
2014-15	416
2015-16	434
2016-17	384

Details in Core Departments

32. Details on student enrichment programmes (special lectures / workshops /

seminar) with external experts:**NIL**

33. Teaching methods adopted to improve student learning

- a) **Class Room Teaching**
- b) **PPTs related to subject**
- c) **NPTEL lessons advices**
- d) **JNTUK CoEerd education**
- e) **GROUP DISCUSSIONS**

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

- A) NSS ACTIVITIES**
- B) SWACHHA BHARATH ACTIVITIES**
- C) CLEAN& GREEN PROGRAMS CALL BY AP GOVERNMENT**
- D) BLOOD DONATION CAMPS**

35. SWOC analysis of the department and Future plans

- The department has dedicated faculty who always strives hard and inspires Students to achieve their goals.
- The institute has been recognized as one of the best among all the colleges in the state of Andhra Pradesh.
- The department is well associated with the faculty of JNTUK in all its academic matters.
- Relatively better standard student intake.
- Qualified and experienced supporting staff and Teaching methodologies as per GATE and IES Syllabus.
- Good infrastructure and Library facilities as per academic standards
- Eco friendly and Pollution free Environment
- The institute is well known for quality education and discipline

- Good computation facility with necessary software

WEAKNESSES

- Inadequate research and consultancy.
- Less industry oriented training programs.
- No summer classes offered at graduate level.
- Because of tight schedule of class work, only a few faculties are permitted to participate in outside seminars/workshops/training programs.

Annexure

1. Name of the Cell: **Training and Placement Cell**

2. Year of Establishment: **2009-2010**

3. Names of Program offered:

S. No	Name of the program	Degree
1	Training for placements	UG - B.Tech (All Branches) and B.Pharmacy PG - MCA, M.Tech (All Branches) and M.Pharmacy

4. Names of Interdisciplinary Concepts and the departments involved:

S. No.	Course	Department
1	C Language Programming	CSE
2	Data Structures	CSE/IT
3	Java Programming	CSE
4	Basic Important fundamental concepts	MECH
5	Basic Important fundamental concepts	ECE
6	Basic Important fundamental concepts	EEE
7	Basic Important fundamental concepts	CIVIL

5. The training is imparted to all the B.Tech II, III year graduates with in the curriculum on Written, Spoken, and Quantitative Aptitude and Reasoning skills. Focus is laid mostly on Interactive mode of teaching where student centric sessions will be conducted, teacher being a facilitator.

Intensive training will be given for all courses of Final year students who

are registered to the Training and Placement Cell. Focus is laid on mock rounds of Group Discussions and Interviews in addition to online and offline practice tests basing on various companies selection criteria.

6. Awards/Recognitions/Affiliations received:

By Institute:

Sl.No	Name of the Award	Given By Company
1	Preferred Placement Partner	By Virtusa Consulting Services Ltd in 2015 (Now called as Virtusa Polaris)
2	Winner of Asia Pacific HRM Congress Award	In 2014 for Academic Excellency in Industry-Institute Interface

Sl.No	Name of the Affiliation	Given By Company
1	Microsoft Academic Partnered College in Krishna District	Microsoft
2	Infosys Campus Connect College	Infosys
3	EMC ² Academic Alliance College in Krishna District	EMC

By Faculty:

Sl. No.	Name of the faculty	Award
1	B.V.S.Prasad	Best Soft skills trainer by Cygmax Business School in the year 2009
2	Dr. N. V. Surendra Babu	“Excellence in Recruitment Drives”-2015 in Vijayawada Region by Wipro in 2015

7. List of eminent academicians and scientists / visitors to the department for student enrichment:

Sl. No	Date	Name of the Speaker	Topic	From Company	Designation
1	03-01-2017	Mr. R.S. Sarma	Career Guidance Program – Interview Etiquette and Employability Skills	Code Tantra	Vice President
2	28-12-2016	Mr. Ashok K. Dasari	Latest Trends in Industry	Ashok Leyland	CEO & MD
3	30-07-2016	Mr. Nivas	Opportunities in present IT Industry	Infosys	Team– Campus Connect
4	04-04-2016	Mr. Venkat Ramana Kuruhuri	Technology Trends	Ramtech	Vice President – HR
5	28-03-2015	Mr. Venkat Ramana Kuruhuri	Focus Innovation Insight	Zen3 Info solutions (India)	Associate Vice President – HR

				Limited	
6	06-10-2014	Mr. Satya Thopalli	Emerging technologies	Tech Mahindra	HR Campus Recruitment
7	22-11-2014	Mr. Vijayan Srinivas	Latest Trends in IT	Zen3 Info solutions (India) Limited	GM
7	11-01-2014	Mr. Bhaskar	HR Interactive Session	Siemens	Sr. HR
8	05-05-2011	Mr. Durga Prasad	How to be best suited into IT	Mahindra Satyam	Recruitment HR

8. Student Registered and Placed Companies list:
(For Last 3 Academic Years)

Student Registrations:

Sl. No	Year	Students Registered	Selected in On Campus	Selected in Off Campus
1	2016-17	369	224 (As on Date)	-----
2	2015-16	367	341	20
3	2014-15	369	199	105

Placement Record in 2016-2017:

Sl No	Company Name	# of Placed students	CTC offered
1	FSS	3	3.0 L

2	Tech Mahindra	25	3.25 L
3	Bacelor	21	2.8 L
4	IKS Health	3	2.46 L
5	TCS	2	3.37 L
6	CV Corp	2	2.4 L
7	Intense Technologies	1	3.0 L
8	Miracle	5	1.8 L
9	Vee Technologies	1	1.5 L
10	Sapient Global Markets	0	5.5 L
11	SLK	9	2.4 L
12	Virtusa Polaris	1	3.3 L
13	HCL Technologies	2	3.0 L
14	Flexiware Solutions	13	1.8 L
15	Tech Tammina	9	1.8L
16	Ramtech Corp	58	1.20 L
17	IBM	4	3.0 L
18	Elico Health Care Services	2	1.0 L
19	Lantech Pharmaceuticals	24	2.0 L
20	Techsosys	8	2.4 L,3.L, 4.L
21	OneGene	20	1.7 L
22	KJ Systems	11	2.0 L
Total No of selections - 224			

Placement Record in 2015-2016:

Sl No	Company Name	# of Placed students	CTC offered
1	Tech Mahindra	29	3.25 L
2	Hexaware Technologies	24	2.5 L
3	Infosys	9	3.2 L
4	Wipro	2	2.2 L
5	Mphasis	4	2.5 L
6	NTT Data	2	3.0 L
7	SLK Software	4	2.4 L
8	TCS	12	3.33 L & 3.5 L
9	Tech Tammina Pvt Ltd	14	2.8 L
10	CMS	72	2.5 L
11	UX Reactor	3	3.3 L
12	Syntel	17	2.9 L
13	Flexiware Solutions	9	1.9 L
14	Good Through	6	2.4 L
15	Gemini Communications	11	1.92 L
16	Netafim India Ltd	9	4.8 L
17	RetailOn	7	4.0 L
18	VEE Technologies	32	1.5 L
19	ACCEL Frontline Global IT Services	3	2.3 L
20	Raster Engineers	4	2.2 L
21	JAIN Irrigations Systems Ltd	13	3.0 L
22	MEDPLUS	14	1.8 L
23	AGS Health Care	14	1.8 L

NAAC - SELF STUDY REPORT

24	Ramtech Corp	10	1.2 L
25	JSKILZ	17	1.5 L to 2.0 L
Total No of selections – 341			

Placement Record in 2014-2015:

SI No	Company Name	# of Placed students	CTC offered
1	Tech Mahindra	34	3.03 L
2	ATOS	18	3.3 L
3	Value Labs	5	1.8 L
4	Sutherland Global Services	13	2.04 L
5	NTT Data	2	3.0 L
6	Infosys	4	3.2 L
7	Virtusa	3	3.6 L
8	Mphasis	2	2.4 L
9	Digital Juice	1	1.5 L
10	Wipro	8	2.2 L
11	Eider Motors	1	1.0 L
12	Efftronics	1	1.5 L
13	Knoah Solutions	3	1.2 L
14	Miracle Solutions	1	1.8 L
15	CSS Corp	2	3.25 L

16	Cadeploy	5	1.2 L
17	Elico	22	1.5 L
18	TCS	2	3.3 L
19	LG Soft	1	5.3 L
20	TPCIL	1	2.8 L
21	eClerx	10	3.0 L
22	Cadysys	4	1.2 L
23	Zen3	5	1.8 L
24	Tata BSS	3	1.5 L
25	SYNTEL	11	2.9 L
26	INPLENION	2	2.5 L
27	Medico	11	2.2 L
28	AGS Health	24	1.8 L
Total No of selections - 199			

Branch Wise Selections:

Year	Branch	No. of Placements	Total Number of Selections
2016-17	CSE	65	224
	ECE	41	
	EEE	35	
	IT	-	
	CIVIL	19	

	MECH	36	
	MCA	-	
	M.TECH	-	
	B.PHARM	28	
2015-16	CSE	67	341
	ECE	105	
	EEE	39	
	IT	19	
	CIVIL	24	
	MECH	38	
	MCA	4	
	M.TECH	1	
	B.PHARM	44	
2014-15	CSE	54	199
	ECE	47	
	CIVIL	8	
	MECH	6	
	EEE	17	
	IT	19	
	MCA	9	
	M.Tech	0	
	B.Pharmacy	39	

9. Details of Infrastructural facilities

a) T & P Library

No. of Titles	57
No. of Volumes	121

b) Internet facilities for Staff & Students: YES

Wi-Fi enabled in Training and Placement Cell and Internet with a Speed of 20 Mbps

c) Rooms with facilities

Room Type	No. of Rooms	Facility Available
GD rooms	03	Wi Fi and Internet
Interview Rooms	03	

d) Laboratories:

Sl. No.	Name Laboratory	Of	Area in Sq. M	No. of Systems
1	C & DS LAB		100 Sq.M	70
2	ELCS LAB		100 Sq. M	70

10. Teaching methods adopted to improve student learning:

Although students evolve diverse styles to learn, mentors involve them in methods like team learning, quizzes, presentations, discussions, debates and seminars on numerous topics to enhance learning and retaining knowledge apart from skills. Mentors also go for team teaching, online techniques for enhancing knowledge on new concepts. Chats, Models, Symposiums are other methods of better learning. Sending students to technical fests, conferences, workshops and internships develop competence, skills and exposure to intensify their learning spirit. This in turn imparts better knowledge to match with skills required for the industry.

The learner's techniques like collaborative communication in teams for dramas, learning creatively and coming up with innovations in all subjects

by in-house faculty and guest speakers also. Eminent personalities from the industry update the learners with the latest changes. They also clear the doubts and help the students to get better idea about their professional life even before they entered the industry. These H.R.'s and Corporate Trainer's clear their doubts and illusions about the industry.

The students are provided with state of the art infrastructure, technology and equipment while taking online exams for their recruitment registration and exam process.

The teaching methods adopted are well in consonance with the industry needs and are updated on a regular basis..

11. SWOC analysis of the department and Future plans

STRENGTHS

- We are the direct witnesses of our students' success in their professional life.
- Training will be imparted to students not only for placements but on life skills also to make them more competent and proficient where ever they go and whatever the challenge they come across.
- To make the students competent and confident to take public sector examinations also and prove themselves successful even outside the campus.
- Students will have an opportunity to come into contact with corporate culture and corporate world, company executives and HR officials so that they have an understanding of the corporate ambience in advance.
- To enable students grab opportunities overseas besides getting placed in MNCs. (Level V companies)
- Facilitate students to interact directly with corporate executives for better exposure and understanding of the world outside to enable them cater to the needs of the industry from day one.

WEAKNESSES

- Students are to be very seriously trained in all the skills of English language - Listening, Speaking, Reading and Writing.

- Most of the students are still not goal oriented and target based both for their career and academics. Hence their attitude is to be set in a proper way.
- Poor participation in technical fests, seminars and other conferences is to be seriously viewed so that the organizing skills of the students also develop and their leadership skills get honed.
- Entrepreneurship skills of the students also need lot of encouragement.
- Workshops and Seminars are to be arranged by inviting qualified and efficient Psychologists and Soft skills trainers.

OPPORTUNITIES

- Students will have an opportunity to come into contact with corporate culture and corporate world, company executives and HR officials so that they have an understanding of the corporate ambiance in advance.
- To enable students grab opportunities overseas besides getting placed in MNCs. (Level V companies)
- Students will have an opportunity to know about the recent trends, latest technologies and software along with other requirements of the companies.
- The Cell is enabled to share all the updated information about the changing scenario of the requirements of the recruitment processes.
- All such measures enable the Cell to send out Industry ready students as fully finished products to the outside world.
- Keeping the updates in the recruitment processes, the training methodologies are also reviewed and revised periodically.

CHALLENGES

- It is a big challenge to the trainers to make the native speakers use right English and develop English speaking on Campus.
 - To make NRI IT Campus as English Speaking Zone.
 - To provide 100% placement to our students.
 - The toughest challenge is to place the best students of our Institution in the world pioneering Companies like Google, Micro Soft, Amazon, etc.,
 - To place our students of EEE, ECE, CSE, IT, MCA, ME and CE in the core companies relating to their respective branches.
 - To groom our students as per the need, nurture them properly to right attitude and kindle the right spirit among them to meet the prerequisites of the industry is another challenging challenge.
-

- To promote right attitude among the students and this helps them to reach the zenith in their career.

DETAILS OF FACULTY MEMBERS REGISTERED FOR Ph.D.

S.No	Name	Department	Year of Registration	Name of the Guide and Topic	Name of University
1	Ch. Chandra Sekhara Srinivas	CIVIL	2011	Dr. T. D. Gunneswara Rao	NIT, Warangal
2	K. Bhaskara Rao	CIVIL	2010	Prof. E.N.Dhanam Raja Rao Topic : Study on Degradation of Kolleru Lake by using Remote Sensing	Andhra University
3	Md. Bibi Jarina	CIVIL	2016	Dr. A. Amruthavalli Topic : Biological Decay fo Post Harvest Decay Problems in Chilli	ANU, Guntur
4	Y. Lalitha Kameswari	EEE	2017	Dr. O. Chandra Sekhar Topic : PE&D Multilevel Inverters	KL University
5	Syam Babu Nutalapati	MECHANICAL	2015	Dr. D. Azad Dr. Swami Naidu	JNTUK
6	P. Bharathi	MECHANICAL	2014	Dr. G. Srinivasa Rao Topic : Materials	ANU, Guntur

7	K. Mani Kumar	MECHANICAL	2016	Dr. N. Govind Garu Topic : Composites (MMC)	ANU, Guntur
8	T. Rajendra Prasad	MECHANICAL	2011	Dr. K. Rama Krishna	JNTUH
9	K. Vidya	MECHANICAL	2014	Dr. P. Suresh Babu Topic : Optimization of Parameters	ANU, Guntur
10	J. Sampath Suresh	MECHANICAL	2010 (Submitted February, 2017)	Dr. M. Pramila Devi Composites	ANU, Guntur
11	V. Mohan Manoj Guptha	MECHANICAL	2016	Dr. K. Meera Saheb	JNTUK
12	R. Sunitha	ECE	2014	Dr. M. Suman Image Processing	KL University
13	S.A. Rehman	ECE	2012	Dr. K. Sri Rama Krishna UWB Antennas	ANU, Guntur
14	S.V. Rama Rao	ECE	2013	Dr. A.M. Prasad Smart Antennas	JNTUK
15	V. Srinivasa Rao	ECE	2016	Dr. Danekar Signal Processing	NIT, Kurukshethra
16	M.S.S.S. Srinivas	ECE	2013	Dr. T.V. Rama Krishna Antennas	KL University
17	Y. Arpitha	ECE	2014	Dr. G.L.Madhumati VLSI Design	JNTUK
18	N. Srikanth	ECE	2013	Dr. Ganga Prasad	KL

				Wireless Network	University
19	K. Prathyusha	ECE	2014	Dr. A.S.C.S. Sastry Embedded Systems	KL University
20	B. Swathi	ECE	2016	Dr. M. Sunil Prakash Wireless Communication	JNTUK
21	M. Suneel	ECE	2014	Dr. T. Ranga Babu Embedded Systems and VLSI	ANU, Guntur
22	M. Poorna Kishore	ECE	2016	Dr. B.T.P. Madhav Antennas	KL University
23	B.B.K. Prasad	CSE	2015	Dr. A. Ananda Rao Big Data	JNTUA
24	Bh. Dasaradha Ram	CSE	2014	Dr. R. Satya Prasad (High Dimensional Data)	ANU, Guntur
25	Sk. Mahaboob Basha	CSE	2014	Dr. D. Nagaraju	ANU, Guntur
26	Ch. Surya Kiran	CSE	2014	Dr. R. Satya Prasad S/w Reliability Engg.	ANU, Guntur
27	D. Suneetha	CSE	2014	Dr. R. Kiran Kumar Security for Cloud (CloudComputing)	KU

28	K. Vamsi Krishna	CSE	2014	Dr. B. Basaveswara Rao Cloud Computing	ANU, Guntur
29	M. Aruna Safali	CSE	2014	Dr. Ch. Suneetha Big Data	ANU, Guntur
30	P. Anusha	CSE	2014	Dr. P.S.R. Murthy Data Mining	ANU, Guntur
31	V. Sudhakara Rao	IT	2015	Dr. M. Nandhini Graph Theory	Pondicherry University
32	Ch.V. Murali Krishna	IT	2014	Dr. G. Apparao Recommended System	GITAM University
33	B. Mouleswara Rao	MCA	2014	Dr. Y. Srinivas High Utility Item Set Mining	GITAM University
34	K. Udayasri	MCA	2012	Dr. J. Rajesh Chowdary HRM	ANU, Guntur
35	T. Sreelatha	T&P	2013	Dr. N. Asharudeen Treatment of Women in the Select Works of Kamala Das and Anita Ram Badami"	Karpagam University
36	B.V.S. Prasad	T&P	2014	Dr. Rathna Seela "Portrayal of Family Relations in the Novels of Amitav Ghost)	ANU, Guntur
37	M.Babu Prasad	BS&H	2009	Dr. Bhavanari Satyanarayana Near Rings)	Dravideam

38	D. Srinivasulu	BS&H	2011	Dr. Bhavanari Satyanarayana Algebra - Graiththeory	ANU, Guntur
39	G. Krishna Priya	BS&H	2014	Dr. V. Aruna Magneto Electrics	ANU, Guntur
40	Ch. Chandra Kala	BS&H	2016	Dr. G. Naga Raju Glass Science	ANU, Guntur
41	M.S.Swarn a Pushpa	BS&H	2016	Dr. T. Raja Rajeswari Validation & Est of Drug Using HPLC & Spec	ANU, Guntur
42	A. Sombabu	BS&H	2016	Prof. K. Pandu Ranga Rao Fixed Point Theory	ANU, Guntur
43	D. Vijaya Kumar	BS&H	2014	Dr. Gangadhar Fluid Dynamics	ANU, Guntur
44	Y. Madhavi	BS&H	2010	Prof. Sasi Kiran indian Literature	ANU, Guntur
45	D. Radhika	BS&H	2011	Prof. R. Saraswathi American Literature (New Woman)	ANU, Guntur

NRI INSTITUTE OF TECHNOLOGY

POTHAVARAPPADU (V), (Via) NUNNA,
AGIRIPALLI (M), KRISHNA DISTRICT, A.P., Pin : 521 212



SELF STUDY REPORT (SSR) FOR ACCREDITATION

**By
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**



MARCH, 2017



NRI INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi :: Affiliated to JNTUK, Kakinada)
(An ISO 9001 : 2008 Certified Institution)

Pothavarappadu (V),
(Via) Nunna, Agiripalli Mandal,
Krishna District, A.P., INDIA
Pin : 521 212

Cell : + 9390 686868
Ph : 08656 - 324999, 0866 - 2469666
e-mail : nrhitech@rediffmail.com
URL : www.nrigroupofcolleges.com

Date: 18/04/2017

Dear Sir,

Sub : Submission of SSR – Request to Arrange for NAAC Peer Committee Visit – Reg.

Ref : 1. Track ID **APCOGN27078**.

2. Email date 6th April, 2017 accepting LOI.

Thank you for accepting our LOI. As per the instructions indicated in your e-mail, reference cited above, we are submitting herewith 5 (five) hard copies and one soft copy (CD) of SSR of our NRI INSTITUTE OF TECHNOLOGY, Pothavarappadu. We also uploaded the SSR submitted herewith, in our website www.nrigroupofcolleges.ac.in. Both the hard copies and the loaded version of SSR comprises the following.

1. Preface and Covering letter from the Head of the Institution.
2. Executive Summary- the SWOC analysis of the Institution.
3. Profile of the Institution.
4. Criteria-wise analytical report.
5. Inputs from each of the Department in the format provided.
6. Declaration by the Head of the Institution.
7. Compliance certificate.

Also enclosed Demand Draft for Rs. _____ bearing No. _____,

Dated _____ drawn in favor of _____ from _____
Bank.

We take this opportunity to request you to arrange the visit of NAAC Peer Committee at the earliest.

With regards,



Yours faithfully

(Dr. C. NAGA BHASKAR)

PRINCIPAL

NRI Institute of Technology
Pothavarappadu (V), Agiripalli (M)

CONTENTS

Description		
A	Covering Letter	
	Declaration by the Head of the Institution	
	Compliance Report	
B	Preface	01
	Executive Summary	02
	Profile of the College	15
C	Criterion-wise Evaluation Reports:	
	Criterion I : Curricular Aspects	26
	Criterion II : Teaching – Learning & Evaluation	68
	Criterion III : Research, Consultancy and Extension	113
	Criterion IV : Infrastructure and Learning Resources	161
	Criterion V : Student Support and Progression	185
	Criterion VI : Governance and Leadership & Management	227
	Criterion VII : Innovations and Best Practices	252
D	Evaluative Reports of the Departments:	
	1. Electronics and Communication Engineering	265
	2. Computer Science and Engineering	299
	3. Electrical and Electronics Engineering	323
	4. Information Technology	344
	5. Civil Engineering	363
	6. Mechanical Engineering	378
	7. Master of Computer Applications	403
	8. Basic Sciences and Humanities	420
	9. Annexure	434



NRI INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi : : Affiliated to JNTUK, Kakinada)
(An ISO 9001 : 2008 Certified Institution)

Pothavarappadu (V),
(Via) Nunna, Agiripalli Mandal,
Krishna District, A.P., INDIA
Pin : 521 212

Cell : + 9390 686868
Ph : 08656 - 324999, 0866 - 2469666
e-mail : nrhitech@rediffmail.com
URL : www.nrigroupofcolleges.com

Declaration by the Head of the Institution

I certify that the data included in this Self Study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the Institution after internal discussions and no part thereof has been outsourced.

I am aware that the Peer Team will validate the information provided in this SSR during the peer team visit.



Signature of the Head of the Institution with Seal

PRINCIPAL
NRI Institute of Technology
Pothavarappadu (V), Agiripalli (M)

Place : Pothavarappadu

Date : 15/03/2017



NRI INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi : : Affiliated to JNTUK, Kakinada)
(An ISO 9001 : 2008 Certified Institution)

Pothavarappadu (V),
(Via) Nunna, Agiripalli Mandal,
Krishna District, A.P., INDIA
Pin : 521 212

Cell : + 9390 686868
Ph : 08656 - 324999, 0866 - 2469666
e-mail : nrhitech@rediffmail.com
URL : www.nrigroupofcolleges.com

CERTIFICATE OF COMPLIANCE

(Affiliated / Constituent / Autonomous Colleges and Recognized Institutions)

This is to certify that **NRI INSTITUTE OF TECHNOLOGY** fulfils all norms.

1. Stipulated by the Affiliating University.
2. Regulatory Council / Body (Such as UGC, NCTE, AICTE, MCI, DCI, BCI, etc.)
and
3. The affiliation and recognition (if applicable) is valid as on date.

In case the affiliation / recognition are conditional, then a detailed enclosure with regard to compliance of conditions by the institution will be sent.

It is noted that NAAC's accreditation, if granted, shall stand cancelled automatically, once the institution loses its University Affiliation or Recognition by the regulatory Council, as the case may be.

In case the undertaking submitted by the institution is found to be false then the accreditation given by NAAC is liable to be withdrawn. It is also agreeable that the undertaking given to NAAC will be displayed on the college website.




(Dr. C. NAGA BHASKAR)

PRINCIPAL
PRINCIPAL
NRI Institute of Technology
Pothavarappadu (V), Agiripalli (M)

Date : 17/03/2017

Place : Pothavarappadu Village

NAAC - SELF STUDY REPORT

PREFACE

NRI Institute of Technology, Pothavarappadu was established in the state of Andhra Pradesh in the year 2008 under the patronage of **Sri Durga Malleswari Educational Society, Vijayawada** to provide quality Technical Education and to promote research and development activities in the fields of Science, Engineering and Technology.

The institution is situated in a clam and serene atmosphere, amidst lush green mango groves and is spread over 20 acres of natural setting. NRI Institute of Technology being located on the Vijayawada – Nuzvidu State Highway, is about 23 km from Vijaywada and 22 km from Gannavaram Airport.

NRI Institute of Technology is, affiliated to JNTUK, Kakinada and approved by AICTE, New Delhi. NRI Institute of Technology offers B.Tech., Programmes in the disciplines of CSE, IT, ECE, EEE, MECHANICAL and CIVIL Engineering. The Institute also offers Postgraduate courses with five specializations viz. Computer Science and Engineering, Digital Electronics and Communication Engineering, Power Electronics and Drives, Structural Engineering and Thermal Engineering in addition to MCA Program.

All the departments are well equipped with the State-of-the-art Equipment, Sophisticated Laboratories, Digital Library and Computer Centers, with the most contemporary facilities backed by advanced Computer Systems and Latest Software.

The institute has a brilliant team of well qualified faculty with vast experience in teaching and research. The faculty members have varied academic background in the fields of Engineering, Technology, Humanities and Sciences. They are also actively engaged in research and consultancy works and regularly publish their research findings in standard Journals of National and International repute. Some of the faculty members have received awards for academic excellence from JNTUK and various other government bodies.

NRI Institute of Technology also has the Distinction of Running Programmes like Microsoft Certificate Program, Oracle Certificate Program and boast of corporate alien as like Microsoft Academic Alliance, EMC² Academic Alliance. NRI Institute of Technology runs trainings programs like Infosys Campus connect and Wipro Mission 10x.

NRIIT also to its credit got a very active and dynamic Training& Placement division, which plays a very significant role in imparting life skills and other soft skills to the students and also in launching their careers.

PRINCIPAL

NAAC - SELF STUDY REPORT

EXECUTIVE SUMMARY

NRI Institute of Technology, popularly known as **NRIIT**, is a self-financing Engineering Institution established in the year 2008, by **Sri Durga Malleswari Educational Society**. NRIIT has self contained infrastructure amidst lush greenery of mango groves and is located strategically between Nuzivid and Vijayawada state Highway which is near to the Capital Region **Amaravati** in the state of Andhra Pradesh.

NRIIT is approved by the **All India Council for Technical Education** (AICTE), New Delhi, permitted by the **Government of A.P**, and is affiliated to **Jawaharlal Nehru Technological University Kakinada** (JNTUK), Kakinada, A.P. The Administration and Academics at NRIIT are well supported by Sri Durga Malleswari Educational Society and Governing body of the College consisting of eminent academicians, Professors, Industry experts and University representatives with decades of experience in premier Institutions.

The Institution was started with four approved undergraduate programs in the Departments of Electrical and Electronics Engineering (EEE), Electronics and Communications Engineering (ECE), Computer Science and Engineering (CSE), Information Technology (IT) with an overall intake of 240 students. Later, Departments of Civil Engineering, Mechanical Engineering, PG programs in M.Tech and MCA were introduced. In the year (2016-17), the college has grown manifold with a total student intake of 960, pursuing courses in six undergraduate and six postgraduate programs of engineering. The vision of the Institute is to impart quality education through exploration and experimentation and produce socially conscious engineers, embedding ethics and values, for the advancement in science and technology. The Institute, basing on the overall feedback of students, faculty and industry assesses the existing curriculum and adds extra topics beyond the syllabus prescribed by the affiliating University . Electives are offered by the affiliating University at both under graduate and post-graduate levels in terms of specializations. All programs offered by the Institute are semester based.

The intake of programs approved by AICTE and affiliated to JNTUK, Kakinada is as follows for the Academic year 2016-17.

S .No	Programme	Branch	Intake
UG			
1	B. Tech	Civil Engineering	120
2	B. Tech	Electrical and Electronics Engineering	60
3	B. Tech	Mechanical Engineering	180

NAAC - SELF STUDY REPORT

4	B. Tech	Electronics and Communications Engineering	180
5	B. Tech	Computer Science and Engineering	180
6	B. Tech	Information Technology	60
PG			
1	MCA	Master of Computer Applications	60
2	M. Tech	Computer Science and Engineering	36
3	M. Tech	Thermal Engineering	24
4	M. Tech	Power Electronics and Electrical Devices	18
5	M. Tech	Structural Engineering	24
6	M. Tech	Digital Electronics and Communication Systems	18

Teaching – Learning and Evaluation

The Institute strives to achieve excellence in teaching and learning by recruiting well qualified and dedicated teaching faculty and also maintains good retention ratio. In UG & PG 70% of admissions are carried out through APSCH, EAMCET Convener and 30% of admissions are carried out through management quota which is purely based on merit. Meticulous planning for teaching at the beginning of every semester paves the way for efficient teaching environment.

Faculty: the academic programs and all academic activities of the institute are supported by a strong contingent of about 242 well qualified and experienced faculty members. Out of the 210 faculty members, 14 are PhD Degree holders and other 228 are Masters Degree holders. The college maintains a faculty student ratio of 1:15 for under graduate program and 1:12 for masters programs adhering to the norms of the AICTE and the affiliating University.

Subjects prescribed as per the regulations of JNTUK, Kakinada are allocated to the faculty based on their competencies and areas of expertise and specialization. For newly introduced subjects, head of the department requests the Principal for conducting a Faculty Development Program (FDP) by the experts in that subject. FDPs are also conducted for newly recruited faculty to induce and enhance the teaching abilities. Subjects are allocated well in advance to teachers by the Head of the Department and lesson plans, tutorial questions are prepared by the teacher concerned and the same are distributed to students. The syllabus coverage is monitored department-wise by the monitoring committee well before the commencement of mid-examinations. Discrepancies in syllabus coverage, if any, are brought to the notice of Head of the Department by the monitoring committee.

NAAC - SELF STUDY REPORT

Methods of Teaching:

The Institute continuously uses innovative methods of teaching, learning and evaluation process. Teaching and learning process adopts a student centric approach to achieve the desired learning outcomes. Interactive learning techniques, such as seminars, tutorials, video lectures, programming contests, mini and major projects, enrich the teaching and learning experience. Apart from the JNTUK prescribed syllabus, special coaching is given on communication skills, verbal, reasoning and aptitude techniques to prepare the students for competitive examinations and placements. Teachers prepare Course Files that include lesson plans, lecture notes, teaching methodology, objectives, outcomes, a record of classroom interaction and comprehensive performance of the students.

Evaluation and Monitoring:

The Institute has a continuous evaluation system. Internal assessments are conducted as per the guidelines of the affiliating University. In addition to the university prescribed examinations, continuous assessment of the student is done by administering weekly slip tests in all the subjects. The internal marks and attendance details are communicated to their parents during the counseling sessions by the staff counselors. The Examination Cell also communicates the internal marks and attendance report to parents through SMS and mobile app every month. The same marks are uploaded to the JNTUK, Kakinada Portal. Slow learners are identified and special remedial classes are arranged to strengthen them by subject teachers.

Research, Consultancy and Extension:

The institute encourages students and faculty to get themselves involved in research activities through its Research and Development Cell. If any project is sanctioned, full support to the Principal Investigator/Project Head is provided to implement the research scheme within the time frame. To create the zeal among students and teachers, college has procured sophisticated equipment, updated library facilities and latest research journals. Every month a review meeting is held to note the status of research and funded projects.

The Institute has 14 Doctorates and some of them are guiding Ph. D and M. Phil research students of various Universities. Nearly 45 members of the staff are pursuing their doctoral research at various universities. The Institute encourages research work among its faculty and students in various ways like sponsoring them to present and publish papers in national and international journals, conferences by providing them academic leave for research, conducting student technical symposiums, faculty development programs and workshops to name a few.

Infrastructure and Learning Resources

The institution very firmly believes that a good teaching/learning process

NAAC - SELF STUDY REPORT

requires ideal conditions. So, NRIIT has made it a policy of not compromising in establishing infrastructure and other resources. Accordingly the Institute has developed the infrastructure and other facilities as per AICTE norms. Good infrastructure like air-conditioned smart classrooms, well equipped laboratories, hygienic canteen, excellent transport facility, LAN and Wi-fi campus, library with internet facility, reading rooms, play grounds, power backup - both conventional and solar, Boys & Girls hostels etc., are provided by the college. There are 5 academic blocks that house seven disciplines of study namely, Civil Engineering, Electrical Engineering, Mechanical Engineering, Electronics and Communications Engineering, Computer Science and Engineering, Information Technology and Master of Computer Applications. The main block is an administrative hub, housing the Digital and the Central libraries, seminar and Conference Hall, Training and Placement Cell, Examinations Cell, chambers of the Chairman, Director, Principal and the Administrative Office along with Departments of ECE, CSE, IT and MCA. Departments of Civil, Mechanical and EEE are located in separate independent blocks. A central block in between Civil and Mechanical Engineering blocks hosts Common Computer Centre and Drawing Halls. Each academic block has its own modern up-to-date computer lab alongside the state-of-the-art departmental laboratories.

The Institute has state of the art library with reprographic facilities and also includes a digital library making it, in fact, one of the best libraries. The campus is eco friendly and optimally utilizes solar power to generate solar energy and also has a mineral water plant and rain water harvesting mechanism to optimize water resources. This Institute uses EZ - software to maintain student profile and attendance. The student performance data is shared with the parents on a periodic basis. There is an online evaluation system, useful for Training & Placements, based on Moodle Server that can be accessed online through student logins even from their homes.

In-house campus recruitment training program to the students on a regular basis. special coaching classes in foreign languages like German are also offered to the interested students.

Student Support and Progression

Various programs are synchronized to take care of the curricular, co-curricular and extra-curricular aspects of education. Formative tests are conducted and the academically weak students are given extra support. Remedial classes and study classes are held for those students. Customization and counseling the students are the healthy practices that help faculty to build a rapport with the students and reach out to them accordingly. Student Grievance Redress Cell effectively functions on the campus. The institution provides necessary coaching to enable the students to appear for various competitive exams. These include GRE, TOEFL, IELTS and GATE. In-house campus recruitment training, etc., Also institute provides training in foreign

NAAC - SELF STUDY REPORT

languages like German etc., The College has well equipped English language laboratories which are of help to the students in improving their communication skills. The institute also focuses on improving computer literacy among its students by arranging special lecture sessions to those students who are less exposed to computer usage and programming. Economically backward students are provided financial assistance, if necessary. Students are highly encouraged to participate in competitions conducted within the campus and elsewhere. There is a part time doctor on the campus to look after the health related issues of the students. There is a first aid clinic on the campus and the students can consult the concerned health care in-charge for minor ailments.

Governance Leadership and Management

The College Governing Body, comprising members from the sponsoring Society, AICTE, JNTUK and AP State Technical Education, Industry and eminent Educationalists, conducts at least two meetings in an academic year and discusses various academic issues and developmental activities, problems faced in the past and how to rectify them in the future etc. The developmental activities are supervised by the management which includes extension of a building, providing additional facilities, introduction of new courses, inclusion of new faculty, employing staff, student admissions, etc. The management conducts periodical staff meetings to review the quality policy and development of the institution. It also arranges for the confidential evaluation of the teachers and the overall institutional performance by the students, which is perused by the Principal to take necessary steps toward institutional development. Income/expenditure are closely monitored by a Chartered Accountant and overseen by the Management. All the staff is permitted to avail leaves like CL, SCL, OD, EL and ML as per Leave Rules and Service Rules of the Institution

Departments

The democratic set-up is extensive with eight departments – Department of Sciences and Humanities (S&H), Department of Civil Engineering (CE), Department of Electrical and Electronics Engineering (EEE), Department of Mechanical Engineering (ME), Department of Electronics and Communications Engineering (ECE), Department of Computer Science and Engineering (CSE), Department of Information Technology (IT) and Department of Master of Computer Applications (MCA). Each department is headed by a senior professor and is given total freedom to innovate and plan its perspective development. Organizational hierarchy is maintained to ensure administrative harmony. Empowerment through total decentralization of the departmental administrative system into several committees and units headed by senior faculty, promotes co-operation, sharing of knowledge and innovations. Separate departmental budgets ensure that there is no unprecedented resource crunch. The departmental libraries are stacked with a

NAAC - SELF STUDY REPORT

good number of reference books and journals. The departments also work as nodal centers that facilitate liaison among various stakeholders. Inter-departmental collaborations for R&D activities are encouraged.

Laboratories

The college has sophisticated laboratories spread over 60 rooms in an area of 3474.63 sq m as per the norms laid down by AICTE. The college has a common Computer Center and an exclusive English Communication Skills Laboratory equipped with multimedia systems.

Staff

NRIIT is a cynosure of many faculty and non-teaching staff who work in this region. The faculty is regarded by the management as the real performers and contributors to the development of the institution. Faculty believes in teamwork that leads to the best practices of the institution. NRIIT faculty list boasts of award winners like best teacher of JNTUK, Government of Andhra Pradesh etc. After the inception of the college in 2008, five members were awarded PhDs and forty five members are pursuing their Doctoral research in different disciplines at reputed universities. The faculty of the college has published many research papers in international and national journals of repute.

Chronological Progress at a Glance

Year	Milestone
2008	<ul style="list-style-type: none">Establishment of NRIIT with four UG programs (EEE, ECE, CSE & IT) in Engineering with an intake of 240 students under the affiliation of JNTUK, Kakinada and approval from AICTE
2009	<ul style="list-style-type: none">Introducing MCA program with an intake of 60 studentsStarting of B. Tech degree course in Civil Engineering with an intake of 60 students and increase of intake in B. Tech (ECE) program from 60 to 120
2010	<ul style="list-style-type: none">Increase of intake from 60 to 120 in B. Tech (CSE) course
2011	<ul style="list-style-type: none">Starting of B. Tech course in Mechanical Engineering with an intake of 60 students
2012	<ul style="list-style-type: none">Increase of intake from 60 to 120 in MCA, B. Tech (Civil and Mechanical) coursesStarting of P.G courses M.Tech, ECE (DECS) and M.Tech, CSE (CSE) with an intake of 18 in each courseQuality policy implementation and ISO 9001: 2008 certification

NAAC - SELF STUDY REPORT

2013	<ul style="list-style-type: none"> • Increase of intake from 120 to 180 in B. Tech (CSE and ECE) courses. • Starting of P.G courses in M.Tech, EEE (PED) with an intake of 18 and increase of intake in M.Tech (CSE) from 18 to 36 • MoU with Infosys – Campus Connect • Best Teacher award to Dr. N. Samba Siva Rao, Head of the Department of EEE, by JNTUK for the year 2013-14 • NRIIT is Ranked AA by Career 360 • NRIIT is ranked as the 52nd Best Engineering College of the Country by Competition Success Review • Microsoft Academic partnered college • As per EET CRS Placement rating, NRIIT gets A+(the Best Engineering College of the Country) • EMC² Academic Allied College • NRIIT is ranked among the Top 200 potential Engineering Colleges of the Country by Silicon India
2014	<ul style="list-style-type: none"> • Increase of intake from 120 to 180 in B. Tech (Mechanical Engineering) • Starting of P.G courses in M. Tech Civil (Structural Engg.) and M. Tech Mechanical (Thermal Engg.) with an intake of 24 each • NRIIT recognized by UGC under section 2(f) • Nodal Centre of Andhra Pradesh State Skills Development Centre (APSSDC) • Asia Pacific HRM Congress, 2014 – Award for “INDUSTRY INTERFACE” in Pune • Infosys Campus Connect Program
2015	<ul style="list-style-type: none"> • Wipro Excellence Award, 2015 – Award for “EXCELLENCE IN RECRUITMENT DRIVES” in Vijayawada region • Virtusa Consulting Services Ltd, 2015 – Award for “PREFERRED PLACEMENT PARTNER” • Virtusa Consulting Services Ltd, 2015 – Award for “DYNAMIC PLACEMENT OFFICER” • Virtusa Consulting Services Ltd, 2015 - Award for “PREFERRED PLACEMENTS PARTNER” in pool campus recruitments • AP State Skill Development centre for Krishna district for training the students on Mobile Apps development • Membership with Industry Institute Interface – Andhra Chapter • NRIIT awarded A-Grade by Department of Technical Education, Govt of AP based on “Key Performance Indications” for the year-2015

NAAC - SELF STUDY REPORT

2016	<ul style="list-style-type: none">• Quality policy implementation and Re-certification ISO 9001: 2015• NRIIT awarded A-Grade by Department of Technical Education, Govt of AP based on “Key Performance Indications” for the Year-2016• 138 Faculty members of various departments were ratified by the affiliating JNTUK University • Chairman, NRIIT Dr. R. Venkata Rao honored with membership in Executive Council of affiliating JNTUK University• NRIIT was presented with an award of excellence for motivating and guiding the students to participate in national Level Paper Presentation Contest on Make In India by Project Council, an ECI(Entrepreneurs Council of India) Initiative.• Mr.Vinay Kumar of II ECE was nominated for LIMCA Book of records for his innovation in NANO-REFRIGIRATOR in the year 2016.
-------------	--

Training and Placement Cell

The College has an exclusive and dedicated department to provide career guidance and placements to the students. A Training and Placement Officer leads the Training and Placement Cell, who is assisted by a Training Coordinator and Department Placement Coordinators. Add on courses, are conducted for the students throughout their four years of study to improve their soft skills and technical skills. The cell offers both in-house training and conducts sessions on mock recruitment process. The college has partnered with Co-Cubes, Monster, JKC for Training and Placement activities. The placement cell maintains a record of all the interviews held on campus and off-campus selections. As and when the results are declared, the cell takes the responsibility to circulate the same information to all the students regarding the achievement to boost their morale and inspire other students. Industry oriented thinking is inculcated right from the first year of B. Tech program. Soft skill training is offered from the second year. Regular guest lectures are organized with people from the industry as resource persons. Industry oriented project work and internship are encouraged. Training is also given for certification programs.

Campus Placements

Even though being a young and growing institution which is celebrating its 8th anniversary and which has sent out only five batches of students, NRIIT has succeeded in achieving in the year 2016 alone, record placements of over

NAAC - SELF STUDY REPORT

300 students in 35 companies. In the last four years, 756 students were placed by the Training and Placement cell of the college in nearly 50 companies.

NRIIT is considered the right choice by various prestigious MNCs for conducting their mega pool campus recruitment drives besides conducting prestigious examinations that open up employment and career opportunities to deserving candidates, NRIIT has Tie-up with TCS and NSEIT to hold online examinations on their behalf. Various State Government, Public Service Commission examinations like APPSC Group-I, II, III, IV, VRO, VO, etc; State Government Higher Education Commission examinations like EAMCET, PGECET, etc; and national examinations like IIT JEE, Post-Graduate Medical Entrance Examinations, Army Recruitment Examinations, etc. are conducted with responsibility and confidentiality by the college.

Entrepreneurship Development Cell

The college has established Entrepreneurship Development Cell (EDC). The objectives of the Cell are

- Developing entrepreneurial spirit, characteristics and leadership qualities among students.
- Developing technical, technological and professional competencies needed for entrepreneurial and productive work.
- Imparting managerial capabilities to run a business or a small scale unit successfully.
- Creation and dissemination of current knowledge and latest insights in entrepreneurial theory and practice.

Alumni Association

Each and every department seeks the opinion / suggestions of alumni on various developmental activities of the institute by sending mails to them and requesting them to fill the forms supplied in this regard. An alumni portal is designed as a part of the college website for effective and quick interaction between the college and alumni. Alumni meetings are held every year on the college campus.

Library

The college has a computerized Central Library which is well equipped with a large collection of books under the categories of academics, reference and general books. All the books are bar-coded and indexed using the latest library management software. The library also subscribes to both national and international magazines, journals and periodicals in addition to procuring leading national dailies. It is a book house of knowledge, where its prime motto is to guide every student in an appropriate way and pave the road to acquiring knowledge and thereby success. A student book bank is operated in the library. It meets the innumerable needs of the students in the academic curriculum. It satiates the intellectual hunger and quenches the thirst for

NAAC - SELF STUDY REPORT

knowledge of the scholarly students. The book collection ranges from literary classics to management guide and from career counselors to technical reviews.

Internet

Seamless Internet facilities are provided using optical fiber backbone, covering Departments, Labs, and Library and Class rooms throughout the campus through 65 Mbps leased lines from a highly competent Service Provider. One lab is dedicated for internet services during the evenings.

LAN facility: All computing labs are provided with LAN facility.

Wi-Fi facility: Wi – Fi facility is available in the institute.

Co-curricular, Extracurricular & Cultural activities

College encourages its students to take part in various co-curricular, extracurricular and cultural activities. They are promoted through various student clubs. The college students have excelled in various competitions at university, state, zonal and national levels.

NSS Activities

To encourage students in serving the nation and society, the nearby village (Kanasanapalli) is adopted and weeklong special camps are conducted every year. Students in large number actively participate under the guidance of the Program Officer. Awareness regarding cleanliness, importance of education, health care and self help is created.

Sports and Games

The college is regularly representing at various inter-institutional, State and National tournaments. Coached by two Physical Education Trainers, selected students are made to participate in the JNTUK University teams. NRIIT provides facilities and the required equipment for both indoor and outdoor games to the students. A sports day is conducted every year where the students receive certificates and medals for their sports talent in the intramural competitions. A spacious play ground is available for outdoor games like Cricket, Football, Volleyball, Basketball, Badminton etc. Facilities for playing Indoor games like Table Tennis, Chess, Caroms etc, are provided to students in the college campus.

Cultural Clubs and Student Bodies

The college has eight cultural clubs and every student gets enrolled into a club of his/her choice. Three hours are earmarked for the activities of the club every week. Besides the faculty, experts from outside the college act as resource persons for the clubs.

NAAC - SELF STUDY REPORT

Innovations and Best Practices

The institution follows best practices like maintaining discipline, professional ethics and excellence in teaching. The campus is a ragging free zone with a vigilant anti-ragging committee. Students also involve in community development and social service activities through NSS by organizing and involving themselves in blood donation camps, distribution of food and clothing for the poor, organizing social awareness camps in the nearby villages and so on. The institution has ICT class rooms well equipped with LCD projectors, Multimedia PCs, restricted Wi-Fi and complete LAN connectivity and Internet access.

- Air-conditioned seminar hall is provided with PCs and projection systems to support serving a large number of audience.
- JNTUK's CoERD portal is available for students and staff to browse/download subject wise e-content.
- NPTEL and online courses of various IITs are made available to the students and staff.

Points of Pride

- NRIIT is an ISO 9001: 2015 Certified institution
- NRIIT was awarded A-Grade by Department of Technical Education, Govt of AP based on "Key Performance Indications" in the year 2016.
- NRIIT achieved Gold medal (University first rank) in JNTU Kakinda from the first outgoing batch, 2012 in the Department of Computer Science and Engineering.
- NRIIT is ranked as the 52nd Best Engineering College of the Country by Competition Success Review - July, 2013
- NRIIT is Ranked among the Top 200 potential Engineering Colleges of the Country by Silicon India - July, 2013
- NRIIT is rated AA by Career 360 - July, 2013
- NRI IT, VJA, AP Is Ranked as the A+ ,the Best Engineering College of the Country by EET CRS Placement Rating -13
- EMC² Academic partnered College in Krishna District
- Runs the Campus Connect program of Infosys
- Microsoft Academic partnered college in Krishna District
- TCS ION Centre for conducting online exams for govt. sector exams
- Winner of Asia pacific HRM Congress award 2014 for Academic Excellence in industry- institute interface
- The college is recognized with UGC 2(f)
- Virtusa Consulting Services Ltd, 2015 - Award for "PREFERRED PLACEMENTS PARTNER" in pool campus recruitments.

NAAC - SELF STUDY REPORT

- Wipro Excellence Award, 2015 – Award for “EXCELLENCE IN RECRUITMENT DRIVES” in Vijayawada region.
- AP State Skill Development centre for Krishna district for training the students on Mobile Apps development.
- Recipient of “BEST TEACHER AWARD” from JNTUK for the year 2013-2014 by Dr. N. Samba Siva Rao, Professor and Head Department of EEE was awarded the same.
- Mr. Vinay Kumar of II ECE was nominated for LIMCA Book of records for his innovation in NANO-REFRIGIRATOR in the year 2016.

Institute SWOC Analysis

Strengths

1. Institute has well qualified and highly dedicated Teaching and Non-Teaching Staff.
2. Institute has well equipped infrastructure with spacious built-up area.
3. Outcome based teaching method focused on employment and entrepreneurship.
4. Institute has excellent rapport with corporate world for technical and managerial support.
5. Management with a vision for imparting quality education and student welfare.

Weaknesses

1. Students, being from rural areas, are striving to meet national and global standards in technical education and facing language barriers(English Language).
2. Institute has to upgrade its teaching community for more funded projects, quality research and development, patents and consultancy.

Opportunities

1. Institute is regularly organizing various development programs for the benefit of teachers and students through seminars, workshops, conferences, symposiums and student meets.
2. Ever increasing demand for technical education at UG & PG level of Engineering & Technology.
3. Many opportunities for tie-ups with both established and start-up companies in India and abroad for enhancing learning outcomes.

Challenges

1. Institute has competition from other technical Institutions and Universities.
2. To produce more qualified and industry ready technocrats.
3. To become a fully residential campus.
4. To implement rule of conversation in English on campus successfully.

NAAC - SELF STUDY REPORT

5. To obtain UGC 12(b) and NBA accreditation for getting more funds for research activities/projects for achieving patents.
6. To upgrade the institution to meet requirements for Autonomous status.

NAAC - SELF STUDY REPORT

SECTION - B

PREPARATION OF SELF-STUDY REPORT

PROFILE OF THE AFFILIATED / CONSTITUENT COLLEGE

1. Name and Address of the College:

Name :		NRI Institute of Technology			
Address :		Pothavarappadu(Village), Agiripally(Mandal)			
City :	Vijayawada	Pin :	521212	State :	AndhraPradesh
Website :		www.nrigroupofcolleges.ac.in			

2. For Communication:

Designation	Name	Telephone with STD code	Mobile	Email
Principal	Prof.C.Naga Bhaskar	O:08662469665 R:08662492712	8333882444 9490336868	cnbhaskar@gmail.com
Steering Committee Coordinator	Prof.K.V.Sambasiva Rao	O:08662469671 R:08662582587	9440115556	kvsambasivarao@rediffmail.com
Director of Academic	Prof. M.V.N. Sarma	O:08662469666	9492431515	drmvnarasimhasarma@gmail.com

3. Status of the Institution:

Affiliated College	√
Constituent College	----
Any other (specify)	----

NAAC - SELF STUDY REPORT

4. Type of Institution:

a. By Gender

i.	For Men	--
ii.	For Women	--
iii.	Co-education	√

b. By Shift

i.	Regular	√
ii.	Day	√
iii.	Evening	--

5. It is a recognized minority institution?

Yes	--
No	√

If yes specify the minority status (Religious/linguistic/ any other) and provide documentary evidence.

6. Sources of funding:

Government	-----
Grant-in-aid	-----
Self-financing	√
Any Others	--

7. a. Date of establishment of the college:01 /06/ 2008 (dd/ mm/ yyyy)

b. University to which the college is affiliated /or which governs the college (If it is a constituent college) : Jawaharlal Nehru Technological University Kakinada (JNTUK), Kakinada, Andhra Pradesh

c. Details of UGC recognition:

Under Section	Date, Month & Year (dd-mm-yyyy)	Remarks(If any)
i. 2 (f)	12-01-2015	F.No:8-447/2014(cpp-1/c)
ii. 12 (B)	-----	-----

(Annexure-I: The Certificate of recognition of UGC 2 (f))

NAAC - SELF STUDY REPORT

- d. Details of recognition/approval by statutory/regulatory bodies other than UGC (AICTE, NCTE, MCI, DCI, PCI, RCI etc.)

Under Section clause	Recognition / Approval details Institution Department Programme	Day, Month and Year (dd-mm-yyyy)	Remarks
i. (AICTE)	South-Central/1-2814121317/2016/EOF	25/04/2016	2017
ii. (JNTUK)	JNTUK/DAP/B1/B.Tech/B.Pharmac y/ 2016-17	03/06/2016	2017
iii. (AP Govt)	GO.RT.NO-120	30-05-2016	2017

(Annexure-II:AICTE Approval Letter)

(Annexure-III:JNTUK Affiliation Approval Letter)

(Annexure-IV:AP Govt Approval Letter)

8. Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?

Yes No

If yes, has the College applied for availing the autonomous status?

Yes No

9. Is the college recognized

a. by UGC as a College with Potential for Excellence (CPE)?

Yes No

b. for its performance by any other governmental agency?

Yes No

If yes, Name of the agency **Andhra Pradesh State Council For Higher Education** And Date of recognition: **01/06/2008**
(dd/mm/yyyy)

NAAC - SELF STUDY REPORT

10. Location of the campus and area in sq.mts:

Location *	Rural
Campus area in sq. mts.	70776(16.37Acr)
Built up area in sq. mts.	23,450

(* Urban, Semi-urban, Rural, Tribal, Hilly Area, Any others specify)

11. Facilities available on the campus (Tick the available facility and provide numbers or other details at appropriate places) or in case the institute has an agreement with other agencies in using any of the listed facilities provide information on the facilities covered under the agreement.

- Auditorium/seminar complex with infrastructural facilities : **Yes**

- Sports facilities

* Play ground Yes No

* Swimming pool Yes No

* Gymnasium Yes No

- **Hostel**

Boys' hostel	
i. Number of hostels	01
ii. Number of inmates	200
iii. Facilities (mention available facilities)	Generator Television set Wi-Fi Medical AID General Store Washing Facility Sports Equipment.
Girls' hostel	
i. Number of hostels	01
ii. Number of inmates	150
iii. Facilities (mention available facilities)	Generator Television set Wi-Fi Medical AID

NAAC - SELF STUDY REPORT

	General Store Washing Faculty Sports Equipment
--	---

- ❖ Working women's hostel: **No**
- Cafeteria — **Yes**
- Health centre – **Yes**
 First aid, Emergency care facility, Ambulance are available

Qualified doctor	Full time	<input type="checkbox"/>	Part-time	<input checked="" type="checkbox"/>
Qualified Nurse	Full time	<input type="checkbox"/>	Part-time	<input checked="" type="checkbox"/>

- Facilities like
 - Banking: **ATM center Available**
 - Post office : **No**
 - Book shops: **Book Store Available**
 - Transport facilities to cater to the needs of students and staff:
Yes 45 Buses Available to cater to the needs of Students and Staff
 - Animal house: **Not Applicable**
 - Biological waste disposal: **Yes**
 - Generator or other facility for management/regulation of electricity and voltage: **Yes**
 - Solid waste management facility: **No**
 - Waste water management: **Yes**
 - Water harvesting: **Yes**

NAAC - SELF STUDY REPORT

12. Details of programmes offered by the college (Give data for current academic year)

S.I. No	Programme Level	Name of the Programme/ Course	Duration	Entry Qualification	Medium of instruction	Sanctioned/ approved Student strength	No. of students admitted
1	UG	B.Tech-ECE	4 Years	10+2	English	180	180
2	UG	B.Tech-CSE	4 Years	10+2	English	189	180
3	UG	B.Tech-EEE	4 Years	10+2	English	60	39
4	UG	B.Tech-IT	4 Years	10+2	English	60	59
5	UG	B.Tech-CIVIL	4 Years	10+2	English	120	89
6	UG	B.Tech-MECH	4 Years	10+2	English	180	68
7	PG	M.Tech-ECE	2 Years	10+2+4	English	18	06
8	PG	M.Tech-CSE	2 Years	10+2+4	English	36	04
9	PG	M.Tech-EEE	2 Years	10+2+4	English	18	10
10	PG	M.Tech-CIVIL	2 Years	10+2+4	English	24	12
11	PG	M.Tech-MECH	2 Years	10+2+4	English	24	04
12	PG	M.C.A	3 Years	10+2+3	English	60	02

13. Does the college offer self-financed Programmes?

Yes No

If yes, how many?

NAAC - SELF STUDY REPORT

14. New programmes introduced in the college during the last five years if any?

Yes	√	No		Number	06
-----	---	----	--	--------	----

15. List the departments: (respond if applicable only and do not list facilities like Library, Physical Education as departments, unless they are also offering academic degree awarding programmes. Similarly, do not list the departments offering common compulsory subjects for all the programmes like English, regional languages etc.)

Faculty	Departments (eg. Physics, Botany,	UG	PG	Research
Science	---			
Arts	---			
Commerce	---			
Engineering	Department of Electronics and Communication	B.Tech	M.Tech	---
	Department of Computer Science Engineering	B.Tech	M.Tech	---
	Department of Electrical & Electronics Engineering	B.Tech	M.Tech	---
	Department of Information Technology	B.Tech	---	---
	Department of Civil Engineering	B.Tech	M.Tech	---
Technical	Department of Mechanical Engineering	B.Tech	M.Tech	---
	Department of Master of Computer Applications	---	M.C.A	---

16. Number of Programmes offered under (Programme means a degree course like BA, BSc, MA, M.Com...)

- a. annual system
- b. semester system
- c. trimester system

NAAC - SELF STUDY REPORT

17. Number of Programmes with

- a. Choice Based Credit System 03
- b. Inter/Multidisciplinary Approach ---
- c. Any other (specify and provide details) ---

18. Does the college offer UG and/or PG programmes in Teacher Education?

NO YES

19. Does the college offer UG or PG programme in Physical Education?

No

20. Number of teaching and non-teaching positions in the Institution

Positions	Teaching faculty						Non-teaching staff		Technical staff	
	Professor		Associate Professor		Assistant Professor					
	*M	*F	*M	*	*M	*F	*	*	*M	*
Sanctioned by the UGC / University / State Government	-	-	-	-	-	-	-	-	-	-
<i>Yet to recruit</i>										
Sanctioned by the Management / society or	13	02	55	26	83	41	68	30	19	18
<i>Yet to recruit</i>										

***M-Male *F-Female**

NAAC - SELF STUDY REPORT

21. Qualifications of the teaching staff:

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt	-	-	-	-	-	-	-
Ph.D	13	2	0	0	0	0	15
M.Phil	0	0	0	0	6	6	12
PG	0	0	55	26	77	35	205
Temporary teachers							
Ph.D							
M.Phil							
PG							
Part-time teachers							
Ph.D							
M.Phil							
PG							

22. Number of Visiting Faculty /Guest Faculty engaged with the College.

Departments invite eminent professors from IIT, IIIT, NIT regularly and organizes guest lectures for students.

23. Furnish the number of the students admitted to the college during the last four academic years.

Categories	Year1 (2015-16)		Year 2 (2014-15)		Year 3 (2013-14)		Year 4 (2012-13)	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	31	21	54	25	44	20	35	11
ST	1	---	5	---	3	---	4	1
OBC	117	98	179	82	116	66	121	36
General	195	121	210	154	257	168	225	155
Others	22	9	30	7	12	7	12	7

NAAC - SELF STUDY REPORT

24. Details on students enrollment in the college during the current academic year:

Type of students	UG	PG	M. Phil.	Ph.D.	Total
Students from the same state where the college is	615	38	---	---	653
Students from other states of	----	---	---	---	---
NRI students	---	---	----	---	---
Foreign students	---	---	---	---	---
Total	615	38	----	----	653

25. Dropout rate in UG and PG (average of the last two batches)

0.01%

UG

0.01%

PG

26. Unit Cost of Education

(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled)

(a) including the salary component

Rs.54,609

(b) excluding the salary component

Rs.33,351

27. Does the college offer any programme/s in distance education mode (DEP)?

No

✓

28. Provide Teacher-student ratio for each of the programme/course offered

S.No	Name Of The Program B.Tech / M.Tech	Faculty /Student Ratio	
		UG	PG
1	ECE	1:15	1:12
2	CSE	1:15	1:12
3	EEE	1:15	1:12
4	IT	1:20	--
5	CIVIL	1:20	1:12

NAAC - SELF STUDY REPORT

6	MECHANICAL	1:15	1:12
7	M.C.A	--	1:15

29. Is the college applying for Cycle 1

(Cycle 1 refers to first accreditation and Cycle 2, Cycle 3 and Cycle 4 refers to re- accreditation)

30. Date of accreditation* (applicable for Cycle 2, Cycle 3, Cycle 4 and re-assessment only) Not Applicable

31. Number of working days during the last academic year.

255

32. Number of teaching days during the last academic year

(Teaching days means days on which lectures were engaged excluding the examination days)

193

33. Date of establishment of Internal Quality Assurance Cell (IQAC)
IQA02/01/2017(dd/mm/yyyy)

34. Details regarding submission of Annual Quality Assurance Reports (AQAR) to NAAC NA AQAR
Not Applicable (since it is first cycle of accreditation)

35. Any other relevant data (not covered above) the college would like to include. (Do not include explanatory/descriptive information)

CRITERION – I **CURRICULAR ASPECTS**

1.1 Curriculum Planning and Implementation

1.1.1. State the vision, mission and objectives of the institution, and describe how these are communicated to the students, teachers, staff and other stakeholders.

The NRI Institute of Technology, Pothavarappadu was established in the state of Andhra Pradesh in the year 2008 under the patronage of **Sri Durga Malleswari Educational society, Vijayawada**, to provide quality technical education and to promote the research and development activities in Science, Engineering and Technological arenas.

The institution is built in a calm and serene atmosphere, surrounded by lush greenery and is well connected. Ideally located on sprawling 20 acre Mango groves, on Vijayawada – Nuziveedu State Highway, the campus is about 23 KM away from Vijayawada and 22 KM away from Gannavaram Airport.

The institution is affiliated to JNT University, Kakinada and approved by AICTE, New Delhi. NRI Institute of Technology offers B.Tech Courses in six branches of Engineering viz., CSE, IT, ECE, EEE, MECH and CIVIL Engineering. The institute also offers Post Graduate programmes in M.Tech with five specializations viz., Computer Science and Engineering, Digital Electronics and Communication Engineering, Power Electronics and Drives, Structural Engineering, and Thermal Engineering apart from Master of Computer Applications.

All the departments are well equipped with the state-of-the-art equipment, sophisticated laboratories, Computer Centers, with the most contemporary facilities backed by advanced computer systems and the latest software.

VISION:

To evolve as the most preferred educational group with Global recognition as Centre of innovation and excellence, aiming to achieve transformation in education. Inducing profound knowledge in serene environment by synchronizing education with professional ethics and values.

NAAC - SELF STUDY REPORT

MISSION:

To keep in assiduous efforts and transcend our Vision into reality, we are committed with an insight of shaping technocrats into prospective professionals at the cutting edge of industries with competitive advantage.

The Vision and Mission statements communicate explicitly of the immediate emphasis on the development of the cognitive and affective domains to the entrant of the college. The fulfillment of the Vision and Mission are obvious in the objective of the institution.

OBJECTIVES:

- To provide quality education to students
- To empower students to be committed employees or employers
- To work towards holistic development of students inculcating social values and ethics
- To enhance the competency and excellence of teachers
- To promote research and development activities among staff and students
- To serve the community and Nation through extension activities.

The eight Golden Goals framed for every stake holder to achieve are :

- Uncompromising regularity and punctuality.
- Academic excellence.
- Depth in subject and general Knowledge.
- Suitable placement or higher education or entrepreneurship.
- Curiosity of learning, research and development.
- Proficiency in Communication skills.
- Professional values and Social ethics.
- Keeping good health and following good habits.

The apparently ambitious yet very realistic Vision, Mission, Objectives and the Golden Goals are communicated to all the stake holders through the following means:

1. The College hand book records the Vision, Mission, Objectives and the Golden Goals in the first few pages. The Hand Book is issued to all the students and teachers at the beginning of each academic year.
2. The prospective students and their parents come to know about the above through the college prospectus.
3. The global public read the remarkable words as these are posted in the college website.
4. Newsletters published quarterly, carry the significant statements to reiterate the Vision, Mission, Objectives and Goals.

5. Within the college campus, the statements are displayed on boards placed at prominent locations.
6. The fresher's are introduced to the Vision, Mission, Objectives and Goals during the bridge course and orientation program.

1.1.2 How does the Institution develop and deploy action plans for effective implementation of the curriculum? Give details of the process and substantiate through specific example(s)

The College being affiliated to the JNT University, Kakinada, follows the syllabus prescribed by the University.

The university prepares a course structure and syllabi for both UG and PG engineering programs. The course and curriculum details also include the number of contact hours both for theory and laboratory classes. It also includes the number of credits for theory paper and laboratory classes. Based on the syllabus provided by the university, the Institution develops a detailed action plan for effective implementation of curriculum.

However the number of working days and the academic calendar of the college are framed by the Principal in consultation with the Heads of Departments (HoD) to accommodate effective coverage of syllabus, co-curricular and extracurricular activities, aligning with the overall academic calendar of the university.

Each department has set Vision and Mission exclusive for the department, which are aligned with the Vision and Mission of the College. Program Educational Objectives (PEO) and Program Outcomes (PO) are scripted for each program and Course Objectives (CO) and Course Outcomes are defined for each course (theory and lab).

The above are carefully framed to keep in tune with the Vision and Mission of the department and therefore those of the college and also to meet the regulations of National Board of Accreditation (NBA). The overlapping relationship chart (Figur 1.1) shows how the departmental vision and mission, PEOs, POs and COs evolve and interlink with the Vision and Mission of the Institution.

- At the beginning of the semester the course coordinator prepares the lesson plan for their respective subjects.
- As per the scheduled dates of academic calendar, internal/ end semester examinations for students are conducted in each semester.

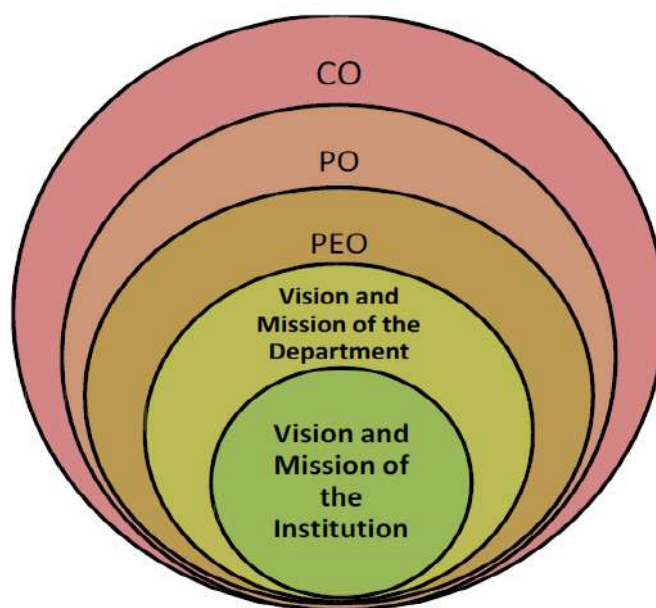


Figure 1.1 : Relationship chart

The development and deployment of processes and action plans for effective implementation of the curriculum are detailed below:

S.No	Nomenclature	Functions	Action Plans
1.	Course Instructor	Plans and delivers the course content	<ul style="list-style-type: none"> • Designing course objectives and outcomes • Mapping COs with Pos • Setting targets for students' performance • Preparing course Plan Identifying delivery modes <p>Doing the ground work for teaching materials and aids Ascertaining content beyond syllabus relevant to the course. Deciding on the assessment modes, Scheduling and executing improvement classes (coaching classes)for slow learners Planning advanced level assignments and projects for advanced learners.</p> <p>Assessing the attainment of outcomes at the end of the course.</p>

NAAC - SELF STUDY REPORT

2.	Course Coordinator	Monitors the course instructors	Working along with and aiding the course instructors to execute the action plans.
3.	Program coordinator	Takes responsibility for the implementation of courses in the module	Guides and oversees the action plans of course instructors and course coordinators and verifies the attainment of COs and POs at the end of the courses.
4.	HoD	Overall In charge for proper functioning of the academic system	Monitors the delivery of courses, achieving outcomes, and designs corrective measures whenever and wherever necessary.

Example : Computer Science and Engineering (CSE) department offers the following courses which are capsuled under the module Computer Science and Engineering :

III Year – I Semester

S.No.	Subject	T (Periods/ Week)	P (Periods/Week)	Credits
1	Compiler Design	4	-	3
2	Data Communication	4	-	3
3	Principles of Programming Languages	4	-	3
4	Data Management Systems	4	-	3
5	Operating Systems	4	-	3
6	Compiler Design Lab	-	3	2
7	Operating Systems Lab	-	3	2
8	Database Management Systems Lab	-	3	2

NAAC - SELF STUDY REPORT

9	Linux Programming lab	-	3	2
10	IPR and Patents-1	2	-	-
11	Seminar	-	-	-
	Total Credits			23

III Year – II Semester

S.No.	Subject	T (Periods/Week)	P (Periods/Week)	Credits
1	Computer Networks	4	-	3
2	Data Ware housing and Mining	4	-	3
3	Design and Analysis of Algorithms	4	-	3
4	Software Engineering	4	-	3
5	Web Technologies	4	-	3
6	Computer Networks Lab	-	3	2
7	Software Engineering Lab	-	3	2
8	Web Technologies Lab	-	3	2
9	IPR and Patents-II	2	-	-
	Total Credits			21

The course-in-charge maintains a course file which contains all the documents necessary for the implementation of the action plans:

NAAC - SELF STUDY REPORT

A sample of the contents of the course file is listed below:

- Course maintenance sheet
- Academic calendar
- Vision and mission of institute
- Vision and mission of department
- Program educational objectives (PEO)
- Program objectives (PO)
- Syllabus/lab cycle
- CO-PO mapping
- List of delivery methods
- Course plan
- Course time table
- Co-Po attainment sheet with proofs
- Instructor report
- Target sheet
- Unit-wise relevant materials including contents beyond syllabus
- Sample university questions papers
- Assignment / tutorial/unit test papers with key
- Sample assignments answer sheet
- Cycle test question papers with key and sample answer sheet
- Slow learners list of every cycle test along with remedial measures
- Model question papers with key
- Consolidated marks sheet
- Answer sheets

The proper documentation of the various process involved is teaching-learning

Process is audited by the ISO Assessment Cell during the semester.

In addition, the following mechanisms are in place for checks and balances.

NAAC - SELF STUDY REPORT

Name of the committee	Constitution	Functions
Program Assessment Committee	Dean/HoD and Senior of the department	Checking the attainments of COs and CO-mapping values of courses offered in Program, submitted the courses in - and compiled by classes in-charge translating the data Measurable parameters.
Department Advisory Committee	Dean/HoD –Convenor Principal – Management Representative Senior Professors of the Department Academician Alumni Representative Industry Representative Parent Representative	Approval of PEOs POs for the year Planning strategies sustained development Modification of and POs based on previous year's

The Department Advisory Committee of the **Computer Science and Engineering** Department is given as an example:

S.No.	NAME	ROLE	DESIGNATION
1.	Dr. C. Naga Bhaskar	Management Representative	Principal
2.	Dr. K.V. Sambasiva Rao	Department Representative	Dean
3.	Mr. N. Veeranjanyulu	Alumni Representative	Student
4.	Sri Nagesh	Industrial Representative	Project Manager, Infosys, Hyderabad

NAAC - SELF STUDY REPORT

5.	Sri D. Rama Krishna	Industrial Representative	Managing Director Effetronics, Vijayawada
6.	Ms. K. Jyothi	Industrial Representative	Cap Gemini, SIPCOT, Chennai
7.	Dr. B.V. Subba Rao	Representative of Professional Bodies	Organizing Secretary Computer Society of India Vijayawada Chapter
8.	Dr. J.V.R. Murthy	Academic Representative	Professor, CSE Dept. JNTUK, Kakinada
9.	Dr. J. Rajendra Prasad	Academic Representative	Professor, PVPSIT, Vijayawada
10.	Sri M. Sankar Prasad	Parent Representative	Bank Employee

Direct involvement of students in assessing the effective planning and delivery of course content is ensured through Class Committee Meetings.

Thus the multi-level appraisal ensures that appropriate methods are developed and deployed for effective implementation of the curriculum.

Industrial visits are arranged to bridge the gap between theoretical knowledge and real life scenario. Vijayawada is well known for automotive and power generation industries. Department of Mechanical Engineering and Electrical Engineering, ECE, CE arrange visits to industries so that the students are exposed to the real world of manufacturing and energy production. Also, many of the final year projects are supported by the industries. Special lectures are conducted by inviting distinguished personalities from eminent Universities/Institutes and Industries.

1.1.3 What type of support (procedural and practical) do the teachers receive (from the University and/or institution) for effectively translating the curriculum and improving teaching practices?

The Institute follows the curriculum prescribed by the Jawaharlal Nehru Technological University, Kakinada. The university prescribes the syllabus, recommends text books, and reference books for ready reference. Required sufficient time are given to the teachers to complete the entire syllabus.

The curriculum is delivered to the students after serious preparation as well as critical thought by the teachers concerned. The institution encourages the faculty to keep themselves updated by enrolling for the refresher courses, FDP, ICT orientation programs and workshops. The college provides books and other teaching and reference material like journals, magazines and software to enable its teachers to ensure effective delivery of curriculum. The Institution supports the process of enhancing the ability of the teachers to effectively implement the curriculum in the following manner.

- Class rooms equipped with ventilation, lighting, fans, AC's, LCD projectors, Computer and sufficient number of tables, chairs based on students' strength.
- The college encourages the faculty to pursue higher studies through the Quality Improvement Programme and to take up research work individually or in collaboration.
- The college also arranges lectures on research methodologies by eminent academicians to promote research activities in the departments and also enrich their delivery of incorporating research aspects of the subjects.
- The college procures textbooks suggested by the faculty members and subscribes to various journals and technical magazines to aid the delivery of the curriculum in an effective manner.
- Center of Excellence for e-resource development and deployment (CoEeRD) has been effectively used to address the changes in learning trends in engineering education.
- Faculty members are encouraged to attend on line Faculty Development Programmes conducted by National Mission on Education through ICT (NME- ICT) in collaboration with IIT Bombay/ IIT Kharagpur.
- Classroom lectures of various courses in the curriculum are supplemented with NPTEL lectures.

- The college takes support from the external sources like IUCEE to improve the faculty and students academically.
- Advanced teaching aids such as smart classrooms, audio and video facilities, technical video resources (video CDs, DVDs) are provided for effective delivery of the subject to the students.
- As part of the Infosys Campus Connect Programme the faculty members receive training and project ideas from the industry experts on emerging technologies.

2. Administrative support:

The institution approves the budget projected by a particular department. All requirements related to procurement of equipment and components to enhance the quality of labs are readily approved by the administration. Besides this all amenities such as electricity backup, water supply, cleanliness and maintenance of campus is accomplished by administration.

3. Faculty Development Program:

Institutional and departmental level FDP for upgrading the technical knowledge of faculty members as per current trends in technology. Institution also deputed faculty for short term courses to enrich their knowledge. It also invites experts from industry and R&D labs to deliver guest lectures on topics of National interest on subject domain. Institution also encourages faculty to take professional membership in ISTE, IEEE, IETE, CSI, CMSI, ACM, IEI, and IIW to enrich their knowledge.

4. Central computing facilities:

The institution has an internet lab with sufficient number of terminals. Besides this, there is a central library which has a number of books, reference books and sufficient volume of journals, technical magazines etc. Apart from this every department has its own library. The institution has a good number of desktops/ laptops available for each faculty to prepare lecture notes, question banks, quiz questions etc.

1.1.4 Specify the initiatives taken up or contribution made by the institution for effective curriculum delivery and transaction on the Curriculum provided by the affiliating University or other statutory agency.

The institution takes all the care for effective delivery of the curriculum provided by the university. The institution is making

NAAC - SELF STUDY REPORT

following efforts to facilitate the faculty for effective curriculum delivery:

- Academic calendar for the entire semester is planned well in advance with the number of contact hours needed for each unit. Committee is constituted by the Institution for planning and execution of course curriculum designed by the university. This committee prepares the details of academic calendar with detailed instructions, dates of examinations and the methodology to assess the student's academic performance.
- Detailed lecture-wise schedule and course material (preferably hand written notes) are prepared by the faculty for the subject allotted to them. Institution encourages the faculty to prepare their own study material, models and charts looking into the needs of the students.
- Modern teaching aids such as LCD projector with computer connectivity, audio-system and microphone provided in most of the classrooms and are supplemented with NPTEL, digital library, video lectures, QEEE lectures. The attendance registers are inspected closely and thoroughly by the head of the department once in a fortnight to check teaching schedules and number of lectures delivered.
- Regular meetings are conducted by the HOD with the faculty members to ensure coverage of topics as per syllabus.
- Faculty are encouraged to pursue Ph.D. programs and/or encouraged to take up research work individually or in collaboration for improving their professional skills. Institution also conducts personality development programs for faculty and students.
- All the faculty members of various departments are encouraged to participate in National / International Conferences, Seminars, Training Programs, and also to organize National / International Conferences. Furthermore, faculty members are encouraged to publish their research findings in National and International journals.
- Study leave is extended to faculty members who wish to pursue Ph.D. programs.

NAAC - SELF STUDY REPORT

- Self-learning mode, modules with Computer Based Training and CDs are available in library which enhances the knowledge bank of the faculty members. Additional initiatives taken by the institution for effective curriculum delivery are listed below:
 1. Virtual labs
 2. Video lectures and presentation with NPTEL
 3. Department Library and a well maintained Central Library with access to e-books and journals of international repute.
 4. Software Development Centre for "*Special Team*" and various Centers established under MoU's with MNC's like IBM, Microsoft, Intel, SAP Labs, Oracle and Tata Technologies provides opportunities to students to get industry relevant trainings and competence building beyond curriculum.
- The institute regularly updates the laboratory facilities to comply with the requirements of the curriculum.
- High speed LAN, Wi-Fi network and high speed internet connectivity is provided to all the students and faculty members across the campus and hostel.
- Students are motivated to undergo internship in various companies during their vacations.
- Students are encouraged to do innovative project work in the new and upcoming technology areas of interest.
- Faculty members and students are encouraged to participate in various technical events conducted in and outside the institute.

The above steps initiated by the institution have yielded good results in effective curriculum delivery by the faculty.

1.1.5 How does the institution network and interact with beneficiaries such as industry, research bodies and the university in effective operationalization of the curriculum?

- The college has set up a Training and Placement cell which maintains professional relations with the representatives of industry. Personalities from reputed industries and academic institutions are invited to the institute for delivering guest lectures and have interaction with the faculty members and students. The HR managers of various companies are invited to the

NAAC - SELF STUDY REPORT

college campus to interact with the students. Reputed industries are conducting campus recruitment drives on a wider scale.

- The college has collaborations with organizations like IBM, Microsoft, Oracle, Infosys, TCS, EMC² and Techmahindra, which help the students for their project work and train them in latest technologies for improving their employability.
- To keep the research component alive in the campus, the faculty members of the college are motivated to take up research projects. Faculty members on their own also keep on interacting with various research bodies and participate in research projects of diverse domains.
- Many of the faculty members are fellows of the professional bodies like IEEE, IETE, ISTE. They are regularly attending conferences, seminars, workshops etc offered by these bodies which in turn helps them in self growth and in disseminating knowledge to students. List is enclosed as Annexure – 1.
- Students are encouraged to take up industry sponsored projects so that they can have interaction with the working professionals in the industry.
- The institute arranges industrial visits for students, so that, the students apart from getting hands on experience of the application of the theory studied by them, also learn about the various standards and skills that the industries expect from them.
- The college apart from financing projects, also actively encourages its faculty to apply/ obtain funded projects from various bodies such as AICTE, DST etc. This facilitates a constant interaction between research bodies and the college.
- Many of the departments provide curriculum feed back to the University. Hence, there is a continuous interaction between the faculty members of the institute and the university.
- Soft skills training programs are conducted in each semester to enhance the employability of the students.

1.1.6 What are the contributions of the institution and/or its staff members to the development of the curriculum by the University? (Number of staff members/departments represented on the Board of Studies, student feedback,

teacher feedback, stakeholder feedback provided, specific suggestions etc.)

Being an affiliated institution, the programme curriculum is framed by JNTUK. The syllabus undergoes modification from time to time in line with technological advancements. The University appoints several faculty members as members of Board of Studies /Syllabus committee / Syllabus revision committee. Once in three years the chairman of Board of Studies (BoS) calls for a meeting to bring changes in curriculum. The BoS includes JNTUK nominated members and representation from the industries. Suggestions from the affiliated colleges are invited to design the new curriculum. The University prepares the draft copy of the syllabus and sends it to the institutes. The syllabus is given to the respective faculty members. Suggestions from the departments are sent to the University. BoS meeting is held to finalize the syllabus which is then circulated to the colleges.

1.1.7 Does the institution develop curriculum for any of the courses offered(other than those under the purview of the affiliating university)by it ? If yes, give details on the process(Needs Assessment, design, development and planning) and the courses for which the curriculum has been developed.

No. The institution is affiliated to Jawaharlal Nehru Technological University, Kakinada. As affiliated institution, the curriculum is adhered to and syllabus prescribed by the University. However, as an opinion for changes in syllabus, modifications are suggested . Projects, industrial visits, guest lectures, workshops, faculty development programs, participation in seminars, symposium, National and International conferences by faculty and students are conducted by the institution. Add-on courses, conduct of soft skills programs, technical skills programs like CIPET, QEEE programs offered by IIT, Madras are some of the efforts to supplement the gap in teaching-learning process and add value to the existing courses.

1.1.8 How does institution analyze /ensure that the stated objectives of curriculum are achieved in the course of implementation?

All the academic programs although developed by the

University are in line and in tune with the institutional goals and objectives. The curricula, prepared by the university, is delivered in consultation with the academicians and technical experts selected from industry, keeping in view the requirements of both the industry and society. This enables the graduates of NRIIT to fulfil the demands of the competitive market for employability both at national and international level.

In addition to the examinations conducted by the university, continuous evaluation of the students is the method adopted by the institute to ensure that the objectives of the curriculum are achieved. The process involves:

- Two Internal assessment tests are conducted during the semester
- Assignments are given to improve their analytical and problem solving skills
- Quiz based on the topics of the course is conducted.
- Subject proficiency test (Objective type questions) is conducted to test the level of proficiency in a given course for students.
- Course Seminars are conducted for every subject where the students have to, effectively present on the given topic and submit the seminar reports.
- Feedback from the current students and alumni
- Feedback from the industries where the students are undergoing internship and carrying out the projects
- Feedback from employers
- The Heads of the departments periodically review the progress in the syllabus and also the performance of the students.
- A regular feedback from the above, is used to assess the extent to which the Program Objectives are met. The important bodies of the institute such as governing body and academic committees take necessary corrective actions.

1.2 Academic Flexibility

1.2.1 Specifying the goals and objectives give details of the courses etc., offered by the institution.

To make the students placement ready, the institute is associated with organizations viz., INFOSYS, EMC², Microsoft, Oracle Academy, APGENCO, Kusalava International Ltd., Efftronics and

NAAC - SELF STUDY REPORT

APSSDC. Students are offered B.Tech., programme in CIVIL, EEE, ECE, CSE, MECHANICAL and IT streams. M.Tech., in Structural Engineering, Software Engineering, Power Electronics and Drives, Digital Electronics and Communication System, Thermal Engineering and M.C.A.

Also students are enriched with skill development programmes offered to meet the present day job market challenges like acquiring Microsoft certification, Oracle certification, DB2 certification, Autodesk Certification, Bentley Certification, Matlab Certification, programmes are conducted in the college and students are encouraged to acquire certifications from these companies which give edge to them during their job search.

1.2.2 Does the institution offer programmes that facilitate twinning /dual degree? If “yes”, give details.

No

1.2.3 Give details on the various institutional provisions with reference to academic flexibility and how it has been helpful to students in terms of skills development, academic mobility, progression to higher studies and improved potential for employability. Issues may cover the following and beyond:

- **Range of Core / Elective options offered by the University and those opted by the college**
- **Choice Based Credit System and range of subject options**
- **Courses offered in modular form.**
- **Credit transfer and accumulation facility**
- **Lateral and vertical mobility within and across programmes and courses**
- **Enrichment courses**

Placement training, Communication skills training and skill development training sessions are conducted to the enrolled students. Soft skills training classes are included in the regular class time table itself. These training sessions are conducted in addition to the prescribed curriculum. This improves the employability of students. Institute also conducts special training classes for GERMAN LANGUAGE, GATE etc.,

The Institute has a separate system to support the students appearing for various campus recruitment tests for placements. Students who are interested and willing to appear competitive examinations are trained by faculty members from the Training and placement department. Students can appear for online examinations using

NAAC - SELF STUDY REPORT

internet facilities at our institution. Awareness programmes regarding this are given. Study material in the form of e-books for entrance test like GATE is provided in the digital library of the college.

Range of Core / Elective options offered by the University and those opted by the college

In compliance with the curriculum of the Jawaharlal Nehru Technological University, Kakinada; the students must register for all the core subjects prescribed. All the students have the choice of selecting elective Subjects from the list of subjects offered by the University. The elective subjects offered are based on the latest technological trends and industrial needs so that at the end of the programme, the student will be conversant with those advanced topics and be ready to meet the needs of the industry. The following table shows the number of core and electives courses offered. For each of the elective subjects, the students have a range of 5 to 6 subject choices for all the programs offered. Along with the core and elective papers 2 - 4 labs in R13 are mandatory for each programme. For example, the table below gives the range of electives available in the JNTUK syllabus and those offered by the department of Computer Science and Engineering.

Electives Offered by the University	Electives opted by the College
Elective I Software Testing and Methodologies Simulation and Modeling Information Retrieval Systems Artificial Intelligence Multimedia Computing Computer Architecture Elective II Digital Forensics Cloud and Big Data Software Project Management Machine Learning Advanced Databases Elective III	Elective I Software Testing and Methodologies Elective II Cloud and Big Data Elective III Human Computer Interaction

NAAC - SELF STUDY REPORT

Human Computer Interaction Advanced Operating Systems Mobile Adhoc & Sensor Networks Pattern Recognition Digital Image Processing Elective IV Embedded and Real Time Systems Neural Networks & Soft Computing Social Networks & the Semantic web Parallel computing E-commerce	Elective IV Social networks and the semantic web
---	--

R13

Program	Semester/year	Core, Laboratory & Elective Paper
CSE	1 st semester	6(T), 4(P)
	2 nd Semester	6(T), 3(P)
	3 rd Semester	7(T), 3(P)
	4 th Semester	7(T), 3(P)
	5 th Semester	7(T), 2(P)
	6 th Semester	7(T), 2(P)
	7 th Semester	4(T), 2(P), 2(E)
	8 th Semester	1(T), 3(E), Project
ECE	1 st semester	6(T), 4(P)
	2 nd Semester	6(T), 3(P)
	3 rd Semester	6(T), 2(P)
	4 th Semester	6(T), 2(P)
	5 th Semester	6(T), 3(P)
	6 th Semester	5(T), 3(P), 1 seminar
	7 th Semester	4(T), 2(E), 2(P)
	8 th Semester	2(T), 2(E), 1 Project
	1 st semester	6(T), 4(P)
	2 nd Semester	6(T), 3(P)

NAAC - SELF STUDY REPORT

EEE	3 rd Semester	6(T), 2(P)
	4 th Semester	6(T), 2(P)
	5 th Semester	7(T), 2(P)
	6 th Semester	6(T), 2(P)
	7 th Semester	3(T), 2(E),3(P)
	8 th Semester	1(T), 3 (E), Project
Mechanical	1 st semester	6(T), 3(P)
	2 nd Semester	6(T), 4(P)
	3 rd Semester	6(T), 2(P)
	4 th Semester	5(T), 3(P)
	5 th Semester	7(T), 2(P)
	6 th Semester	6(T), 1(E), 1(P)
	7 th Semester	4(T), 1(OE), 1(E), 1(S), 1(P)
	8 th Semester	2(T), 2(E), 1 Project
IT	1 st semester	6(T), 4(P)
	2 nd Semester	5(T), 4(P)
	3 rd Semester	5(T), 3(P)
	4 th Semester	5(T), 3(P)
	5 th Semester	5(T), 3(P)
	6 th Semester	5(T), 3(P)
	7 th Semester	3(T), 2 (E), 4(P)
	8 th Semester	3(T),1(E), Project
Civil	1 st semester	6(T), 3(P)
	2 nd Semester	6(T), 3(P)
	3 rd Semester	6(T), 2 (P)
	4 th Semester	6(T), 3 (P)
	5 th Semester	6(T), 2(P)
	6 th Semester	5(T), 1(E) ,2(P)
	7 th Semester	4(T), 2 (E), 2 (P)
	8 th Semester	1(T), 3 (E), Project
	1 st semester	5(T), 3(P)
	2 nd Semester	5(T), 2(P)

NAAC - SELF STUDY REPORT

MCA	3 rd Semester	5(T), 2(P)
	4 th Semester	3(T), 2(P),2(E)
	5 th Semester	3(T), 2(P),2(E)
	6 th Semester	Project
M.Tech (CSE)	1 st semester	5 (T), 2 (P)
	2 nd Semester	5 (T), 2 (P)
	3 rd Semester	Project
	4 th Semester	Project
M.Tech (DECS)	1st semester	6 (T), 1 (P)
	2nd Semester	6 (T), 1 (P)
	3rd Semester	Seminar, Project
	4th Semester	Seminar, Project
M.Tech (Structural Engineerin)	1st semester	6(T), 1(P)
	2nd Semester	6(T), 1(P)
	3rd Semester	Project
	4th Semester	Project
M Tech (Power Electronics and Drives)	1st semester	6(T), 1(P)
	2nd Semester	6(T), 1(P)
	3rd Semester	Project
	4th Semester	Project
M.Tech (Thermal Engineering)	1 st semester	4 (T), 2(E), 1(P)
	2 nd Semester	4 (T), 2(E), 1(P)
	3 rd Semester	1(S), 1 PROJECT PART -1
	4 th Semester	1 (S), 1 PROJECT PART -2

Choice Based Credit System and range of subject options

As per affiliating University, JNTU Kakinada, Choice based credit system is not possible. Syllabus is framed in semester based credit system. Choice of elective from the elective list can be chosen by the students.

Courses offered in modular form

Almost all the courses / syllabi are in modular form.

Credit transfer and accumulation facility

No

Lateral and vertical mobility within and across programmes and courses

No. The students are given freedom to work in multi disciplinary projects. The institute provides academic flexibility to the students in terms of undertaking projects in allied departments and also in industries/ research organizations, thereby encouraging inter-disciplinary oriented work and also many of the practically relevant work with reference to the industry. They enhance their academic and employment skills through the following:

- Additional lecture hours introduced for problem oriented and difficult subjects
- Guest lectures given by eminent persons in emerging areas from industry and also from reputed universities in India and abroad
- Mini projects and industry based final year projects
- Seminars by students
- Industrial visits and industrial tours
- Topics beyond curriculum
- Performing additional experiments (than prescribed in the syllabus)

Enrichment courses

Every department offers aptitude classes that enable the students to attend campus interviews with ease. Further the Training & Placement department offers guidelines on group discussions, personal interviews etc., Also, the department of Humanities and Social Sciences has set up a lab in collaboration with Globerena Technology solutions to improve the employability oriented skills of the students. The placement cell periodically hosts mock placement tests /interviews with experts from the industry and gives their feedback to the respective student departments. Enrichment courses conducted are :-

- Pre-placement training for final year students
- Conducting courses related to the subjects beyond the curriculum. Ex. Programming in JAVA, .net etc, are conducted beyond the college hours.
- The institute has industry-institute partnership cell

NAAC - SELF STUDY REPORT

(IIPC). Certification courses are conducted by IIPC where the personalities from the industry provide training to the students. Presently, interested students of Mechanical engineering department and Computer Science engineering department are undergoing training by IBM, Microsoft, Oracle, Tata Technologies, Intel and SAP Labs.

Further, the students are offered assistance and support for preparation for GATE, GRE, TOEFL, CAT and GMAT exams by the faculty members even beyond working hours to ease their passage into higher studies. Academic enrichment is obtained as in core option.

Skill development:

- Soft skill training is given to the students by the Internal Faculty right from 2nd year. In turn with the growing importance of soft skills, the college arranges training to the students from 2nd year onwards by Internal training & expert trainers from market.
- Along with regular subjects, exclusive sessions are conducted for a week or two to impart training in quantitative aptitude, reasoning ability, verbal ability and soft skills.
- Government of Andhra Pradesh established a Nodal Centre for Skill Development at NRIIT. This centre trains the students in technologies that help them find employment.

1.2.4 Does the institution offer self-financed programmes? If “yes”, list them and indicate how they differ from other programmes, with reference to admission, curriculum, fee structure, teacher qualification, salary etc.

All courses offered by college are self financed programmes.

Admission: Keeping the employment potential of these courses in view, proven merit is the main consideration in the eligible candidates. The eligible candidates are interviewed to assess their creativity and innovative skills. Self-Financed Programmes offered by the Institution are:

NAAC - SELF STUDY REPORT

Course	Intake
B.Tech (Civil Engineering)	120
B.Tech (Computer Science and Engineering)	180
B.Tech (Electronics and Communications Engineering)	180
B.Tech (Electrical and Electronics Engineering)	60
B.Tech (Information Technology)	60
B.Tech (Mechanical Engineering)	180
M.C.A (Master of Computer Applications)	60
M.Tech (CSE)	36
M.Tech (Thermal Engineering)	24
M.Tech (DECS)	18
M.Tech (Power Electronics and Drives)	18
M.Tech (Structural Engineering)	24

Admission Process: The admission process is based on the policies and guidelines provided by Government of AP. The process of admissions to all the programs offered by the institution are controlled by the Government of Andhra Pradesh and totally transparent.

UG Programme

(i) Category – "A"

The EAMCET convener (Govt of A.P.) fills up 70% of the seats in the Institute by allotting the candidates to this institute on the basis of their choice, their EAMCET ranks and the reservation policy of the Govt. of Andhra Pradesh, with 75% weightage to the Common Entrance Test, 25% weight-age to the marks obtained at the qualifying examination, Viz., the intermediate examination.

(ii) Category – "B"

The remaining 30% of the seats are filled up by the Institute under the Management / NRI quota as per the guidelines given by the APSCE and the Govt. of Andhra Pradesh for this purpose.

(iii) Lateral Entry

The convener of ECET admits 20% of the sanctioned intake for each program for admission directly into the II

NAAC - SELF STUDY REPORT

year of the 4-year B.E/B.Tech program from among the Diploma holders, based on their rank in ECET, their choice of the institute and the reservation policy of the Govt. of Andhra Pradesh, under the lateral entry scheme.

PG Programme

(i) Category – "A"

The PGECET convener fills up 70% of the seats in the Institute by allotting the candidates to this institute on the basis of their choice, their PGECET/GATE ranks and the reservation policy of the Govt. of Andhra Pradesh.

(ii) Category – "B"

The remaining 30% of the seats are filled up by the Institute under the Management / Sponsored quota as per the guidelines given by the APSCHE and the Govt. of Andhra Pradesh for this purpose.

The details of admissions made into the institution by government of A.P. are displayed on their website and also on the college website.

Curriculum: The curriculum is designed by JNTU Kakinada to which the college is affiliated. These new age courses have a sound, well-charted curriculum specially designed to meet the requirements of competitive scenario.

Fee Structure: For all the courses, both category A and Category B seats, the fees will be as fixed by the Admission and Fee Regulatory Committee constituted by Government of Andhra Pradesh

Teacher Qualifications and Salary: Well qualified and meritorious candidates with good research potential are appointed on regular basis as per State Government and AICTE norms to teach the specialized courses and give a boost to research activities.

Salary: Salaries are paid as per AICTE norms.

1.2.5 Does the college provide additional skill oriented programmes, relevant to regional and global employment markets? If "yes" provide details of such programme and the beneficiaries.

Yes, the institution provides additional skills orientation

NAAC - SELF STUDY REPORT

programs like value added courses that are relevant to the local and global employment market. Institution provides programs like:

- C Programming
- Personality development Program
- MATLAB
- Networking
- Managerial skill development program
- Aptitude development program
- SAP Training
- Autodesk Training
- Bentley Certification
- CNC Programming
- Android training program
- Quantitative, logical and analytical skill development programs
- Industrial visits and Internships
- Project exhibitions
- Poster Presentations

All departments of the institute conduct lectures delivered by experts from various industries and research organizations. This makes the students aware in terms of novel technologies and latest developments in research. These programs offered by the institution are found to be useful for the students and make them more employable both in the National market and International Market.

Some of the Soft skills development programmes organized by the some of our departments are :

Sl.No	Year	Department	Details of the Program Conducted	Beneficiary	Resource Person / Program Conducted by
-------	------	------------	----------------------------------	-------------	--

NAAC - SELF STUDY REPORT

1	24/02/2012	ECE	One Day Work Shop On Vlsi & Embedded Systems	Future Challenges to meet to design low power high performance circuits & To provide knowledge and skill to appreciate rapid change in scenario in Embedded System	Dr.M.B.SRINIVAS, Professor & Dean, Bits , Hyderabad campus
2	08/10/2012	ECE	Robotryst-2013	To learn the programming on Robo arm etc.	Mr. Uma Shankar Yadav and Mr.Nitish Bhardwaj
3	01/03/2013	ECE	A 2-Day Workshop on VHDL	Programming Concepts using VHDL Verilog, Introduction to FPGA	MCN Technology
4	29/06/2013	ECE	Inaugural of IETE Student Forum	Participation in meeting with R&D, Review of technical papers access through IETETIC	Dr.M.Kama Raju, Professor & HOD ECE, Gudlavalleru Engineering College, Gudlavalleru
5	29/06/2013	ECE	Guest Lecture on “Advances in VLSI Design” & Challenges”	Future Challenges to meet to design low power high performance circuits	Dr.M.Kama Raju, Professor & HOD ECE, Gudlavalleru Engineering College, Gudlavalleru

NAAC - SELF STUDY REPORT

6	29/06/2013	ECE	Faculty Interaction Programme	Scope in different areas of research	Dr.M.Kama Raju, Professor & HOD ECE, Gudlavalleru Engineering College, Gudlavalleru
7	05/07/2014	ECE	Guest Lecture on Trends in VLSI Design and DSP-VLSI Architectures	Implementation of new programming concepts in DSP-VLSI Architecture	Dr.N.S.Murthy, Professor, ECE Department, NIT Warangal
8	07/02/2015	ECE	International Workshop On Humanoid Duties	Multi Disciplinary firm with human computer organization, Activities on Robotics and Design	Mr.Anurag Thivari, Research Associate, Robospecies Technologies Pvt.Ltd.
9	12/08/2015	ECE	Two Day Workshop On Low Power VLSI using Tanner EDA	Software provides complete integrated analog design flow that is Flexible and easy to use	Mr.S.Manoj & T.Sundar
10	07/07/2016	ECE	Three Day Workshop On "PCB Design"	To learn PCB design and implementing	Prof .U.Kumar, Design Engineer, Silicon Touch Technologies, Vijaya wada

NAAC - SELF STUDY REPORT

11	21/09/2016	ECE	Three Day Workshop On “Embedded Sysytems”	To provide knowledge and skill to appreciate rapid change in scenario in Embedded Systems	Mr.Govind Rao,Director , Microlink
----	------------	-----	---	---	---------------------------------------

Sl.No	Year	Department	Details of the Program Conducted	Beneficiary	Resource Person / Program Conduct
1	23/08/2013	EEE	Seminar on Advanced Power Systems	II,III,IV EEE M.Tech students	B.P Singh
2	30/01/2014	EEE	Seminar on Renewable Energy Sources	III,IV EEE students	Sri. Kamaraju
3	08/08/2014	EEE	Seminar on Advanced Power Electronic Drives	III,IV EEE, M.Tech students	Smt.Surya Kalavathi
4	17/12/2015	EEE	Work shop on MATLAB/SIMULINK	IV EEE,M.Tech students	V. Naresh
5	15/04/2016	EEE	Work Shop on Supervisory Control	III,IV EEE, students	G.Vinod Kumar

Sl.No	Year	Department	Details of the Program Conducted	Beneficiary	Resource Person / Program Conducted by
1	2016	CSE	Hadoop and Big Data	Students	Mr. Veer Anjaneya Nagaraju, Big Data Minds / CSE
2	2016	CSE	Special lecture on Graph Theory	Students	Mr. V. Sudhakar, / CSE

NAAC - SELF STUDY REPORT

3	2016	CSE	Entrepreneur / IOT Developer ORL Industries	Students	Madhu Parvathaneni / CSE
---	------	-----	---	----------	--------------------------

Sl.No	Academic Year	Dept	Details of activity	Beneficiary	Name of the Speaker
1	2016-17	IT	3 days Workshop on Hadoop and Big Data Analytics	IT STUDENTS	Mr.Veer Anjaneya Nagaraju, Big Data Minds
2	2016-17	IT	Special lecture on Graph Theory Applications	IT STUDENTS	Mr.V.Sudhakar,HOD Information Technology
3	2016-17	IT	3 days Workshop on Hadoop and Big data analytics	IT STUDENTS	Madhu Parvathaneni Entrepreneur / IOT Developer ORL Industries
4	2016-17	IT	Seminar on Data Fusion in Big Data	IT STUDENTS	Mr.B.B.K.Prasad
5	2016-17	IT	Decision Support Systems	IT STUDENTS	Dr. K.V. Sambasiva Rao,DEAN
6	2015-16	IT	Seminar on SAP	IT STUDENTS	R. Mohan, Cronux Technologies, Hyderabad
7	2015-16	IT	Leadership Qualities	IT STUDENTS	Dr. V. Suryanarayana, HOD
8	2015-16	IT	Seminar on Malware Technology	IT STUDENTS	Mr.Sai Sateesh.Ch
9	2015-16	IT	Software Engineering	IT STUDENTS	Dr. V. Suryanarayana,HOD
10	2015-16	IT	Industry Requirements	IT STUDENTS	Dr. K.V. Sambasiva Rao, DEAN

NAAC - SELF STUDY REPORT

Sl.No	Year	Department	Details of the Program Conducted	Beneficiary	Resource Person / Program Conducted by
1	2012-2013	MECHANICAL	Hands on Training of AutoCAD	IV YEAR ME STUDENTS	Mr.B.Prasad /NRIIT
2	2013-2014	MECHANICAL	Hands on Training of AutoCAD	IV YEAR ME STUDENTS	Mr.B.Prasad /NRIIT
3	2015 - 2016	MECHANICAL	Career Prospectus through	III YEAR ME STUDENTS	Mrs.Ch.Navata / NRIIT
4	2015 - 2016	MECHANICAL	Career Opportunities for	IV YEAR ME STUDENTS	Mr.Jamindar Buddiga /NRIIT
5	2015 - 2016	MECHANICAL	Importance of AutoCAD to a Mechanical	II YEAR ME STUDENTS	Mr.K.Abhishek/NRIIT
6	2015 - 2016	MECHANICAL	Study of Mechanical Vibrations in various	IV YEAR ME STUDENTS	Dr.K.Meerasaheb/NRIIT

Sl.No	Academic Year	Dept	Details of activity	Beneficiary	Name of the Speaker
1	2016-17	MCA	3 days Work shop on Hadoop and Big Data Analytics	MCA STUDENTS	Mr.Veer Anjaneya Nagaraju, Big Data Minds
2	2016-17	MCA	Special lecture on Graph Theory Applications	MCA STUDENTS	Mr.V.Sudhakar,HOD Information Technology
3	2016-17	MCA	3 days Work	MCA	Madhu Parvathaneni

NAAC - SELF STUDY REPORT

			shop on Hadoop and Big data analytics	STUDENTS	Entrepreneur / IOT Developer ORL Industries
4	2016-17	MCA	Seminar on Data Fusion in Big Data	MCA STUDENTS	Mr.B.B.K.Prasad
5	2016-17	MCA	Decision Support Systems	MCA STUDENTS	Dr. K.V. Sambasiva Rao,DEAN
6	2015-16	MCA	Seminar on SAP	MCA STUDENTS	R. Mohan, Cronux Technologies, Hyderabad
7	2015-16	MCA	Leadership Qualities	MCA STUDENTS	Dr. V. Suryanarayana, HOD
8	2015-16	MCA	Seminar on Malware Technology	MCA STUDENTS	Mr. Ch .Sai Sateesh
9	2015-16	MCA	Software Engineering	MCA STUDENTS	Dr. V. Suryanarayana,HOD
10	2015-16	MCA	Industry Requirements	MCA STUDENTS	Dr. K.V. Sambasiva Rao, DEAN

These programmes are conducted with aim to ensure that the students are adequately skilled and are industry ready. While designing these additional programmes it is ensured that they suit the global employment market demands as well as the local demands.

1.2.6 Does the University provide for the flexibility of combining the conventional face-to-face and Distance Mode of Education for students to choose the courses/combination of their choice” If “yes”, how does the institution take advantage of such provision for the benefit of students?

No. The institution is affiliated to Jawaharlal Nehru Technological University, Kakinada and there is no provision for flexibility of combining the distance mode of education and conventional face-to-face education for students.

1.3 Curriculum Enrichment

1.3.1 Describe the efforts made by the institution to supplement the University's Curriculum to ensure that the academic programmes and Institution's goals and objectives are integrated?

The JNT University curriculum is followed by NRIIT. Any new development taking place in industry/society is brought to the notice of the students and help students to be aware of the current day advances in the subjects. To build the competencies of the students, NRIIT emphasizes on nurturing the total development of the students along with excellence in their academic performance. To achieve these goals and objectives, the institution has evolved additional inputs in the syllabi. The institution supplements the university curriculum by conducting various academic programs to achieve the institution's goals and objectives. These are:-

- Guest/ Expert Lectures
- Value added and skill development programs
- Co-curricular activities like paper presentation, projects, quizzes organized for the benefit of the students
- Conduct of workshops and seminars
- Coverage of topics beyond the syllabus
- Conduct of additional experiments in laboratory classes
- Training in soft skills, quantitative, logical and analytical skills
- Training the students in computer based subjects
- Skill development programmes
- Certification training programmes
- Guest/ Expert Lectures
- Field and industrial visits
- Personality development programs
- Video Lectures of NPTEL and QEEE
- Online journals and digital library
- Internships

1.3.2 What are the efforts made by the institution to modify, enrich and organize the curriculum to explicitly reflect the experiences of the students and cater to needs of the dynamic employment market?

NAAC - SELF STUDY REPORT

The training and placement cell of the college regularly interacts with the HR managers of companies and collects information about the demands and expectations of the corporate sector regarding skill set of students. College organizes the campus connect program in collaboration with Infosys, so that students can map out their theoretical knowledge into practical implementation. Alumni feedback is taken periodically to understand the emerging market trend.

The institution has taken measures to cater to the global market needs based on the true assessment of strengths and services offered on the campus. Brain storming sessions are conducted by the faculty members to design the tools in the areas of Spoken English, use of computers and providing in-depth knowledge in the respective subjects. Special training and tailor made orientations are conducted to enable the students to achieve the global standards. The College is completely computerized from the administration to the academic levels. Computer labs are well equipped with latest computers. Internet facility is made available at the library. Computers, LCD Projectors have been used for effective communication and teaching.

1.3.3 Enumerate the efforts made by the institution to integrate the cross cutting issues such as Gender, Climate Change, Environmental Education, Human Rights, ICT etc., into the curriculum?

The institution is a co-educational institution and boys and girls are encouraged to work together in various activities.

Gender Sensitization: Panel Discussion on Women's Rights, Women Empowerment through Higher Education, Seminars on Gender Equity are organized to create awareness about Gender issues and promote gender equity. There is no discrimination among boys and girls in various committees constituted by the institute. This holistic approach has led to increased opportunities in employment and entrepreneurial development among the students. There is a woman empowerment and grievances and redressal cell headed by a senior woman faculty. Both boys and girls together participate in tree plantation, medical camps, blood donation camps etc.

Climate Change, Environmental Education : Students are offered environmental science in engineering as a subject. The main objective of this course is to learn and preserve the nature. Institution is keen in

maintaining environmental conditions by creating rain water harvesting, tree plantation, clean environment and Swach Bharat.

Human rights: Anti-Ragging cell, Women Grievance Redressal Cell are active in the college campus. Professional Ethics and Human Values are taught as a subject in the college.

ICT: The College has state-of-the-art infrastructure for imparting computer training. ICT is used in the curriculum of all courses and classes. This foundation of computers and technology training makes the students a part of global information system and enhances their employability

Apart from this, the institution takes necessary steps in the form of conducting quiz, debate and poster competition on the issues like Gender sensitization, Climate Change, Environmental Education, Human Rights, and ICT etc. Every department is responsible for conducting these types of events from time to time.

1.3.4 What are the various value-added courses/enrichment programmes offered to ensure holistic development of students?

- **Moral and ethical values**
- **Employable and life skills**
- **Better career options**
- **Community orientation**

Moral and Ethical Values:

The students are being taught about the moral, ethical and behavioural values through soft skills classes on topics like Constitution of India and Professional Ethics through talks by distinguished persons in these fields. Further, discipline and punctuality etc. are inculcated in to their minds by the faculty.

Employable and Life Skills:

As communication skill is necessary for employment, the institute takes extra care for the development of communication skills of the students through personality development programs, group discussion, pre placement training, debate, Essay writing competition etc. Students are also allotted different responsibilities in organizing various events and activities such as cultural programmes, competitions, seminars workshops etc. This way they improve

NAAC - SELF STUDY REPORT

their team building and organizational skills. Institution also organizes entrepreneur development program and intellectual property rights awareness program. Students are encouraged to participate and learn photography, choreography, drawing and yoga. Workshops are organized in the institute on yoga and life style and, stress management by qualified professionals.

Better career options:

Various multidisciplinary, advanced technologies, industry relevant training programmes are conducted by various centres of excellence established in the college in collaboration with multinational companies like IBM, Oracle, Microsoft, SAP Labs, Intel and Tata Technologies and Mentorship Programmes for Core subjects. Guest lectures are arranged. Additional courses are also offered.

Community orientation:

The institute has NSS wing. NSS camps are organized for the students every year. Social issues and plantation of trees are given importance during the camps. Blood donation camp is organized by the departments. The students come forward and donate blood for the benefit of the needy.

Tree plantation:

More than 2500 Tree Saplings were planted in the Campus and also in the neighbouring village. Institution has identified Kanasanipalli village and Kanasanipalli ZPP school near to the institution wherein the faculty and students educate the villagers with regard to clean environment, drinking purified water, sanitation etc, in order to improve the living standards of villagers. The PG students sometimes handle classes in the nearby schools by giving day to day examples from engineering and science.

1.3.5 Citing a few examples enumerate on the extent of use of the feedback from stakeholders in enriching the curriculum?

The college networks with its stakeholders to collect and document responses on the curriculum from the stakeholders. The students express their opinion on curriculum through response sheets/ feedback. Feedback from Parents on curriculum, placement, trends and teaching methodology is obtained during Parent-Teacher Meeting sessions.

Responses on curriculum are also collected from Alumni, peers, and industry. The IQAC analyses feedback and prepares response chart for future use by the Principal. The feedback thus obtained is communicated to the University for Appropriate Action. Also at the

NAAC - SELF STUDY REPORT

department level, we have framed Programme Educational Objectives (PEO) and Programme Outcomes (PO). Every year Department Advisory Committee (DAC) committee meeting is held to discuss about the fulfillment of the PEO, PO based on university results and the feedback received from students of various batches and the stakeholders. The various types of feedbacks collected in our college are:

Alumni Feedback: Every year institute organizes Alumni Meet in which feedback is collected to enrich the curriculum.

Current Students Feedback: In the middle of the semester and at the end of each semester, online feedback from every student is taken. These feedback are discussed in the staff meetings in the departments and suggestions based on these are given to the staff members.

Employers Feedback: Feedback is collected from the Industry Experts and Employers during the interactions held with them.

Governing Council: Regular Governing Council meetings are held in the Institute and many points are discussed and approved.

1.3.6 How does the institution monitor and evaluate the quality of its enrichment programmes?

The institution monitors and evaluates the quality of its programmes by committees such as planning and monitoring. The roles of the committees are outlined below.

Planning Committee

The committee has members from various departments. It frames the procedure for every activity of our college. The following are the tasks done by planning committee.

- Curriculum implementation
- Internal assessment
- Framework for laboratory
- Plan for academic events such as internal and external symposia,
- Conferences, project expo, teachers' day, alumni meet, sports day,
- Success meet, Annual day etc

Monitoring Committee

The institution has a Monitoring Committee that ensures regular Academic audit of the following:

- Syllabus coverage
- Unit completion
- Attendance
- Monitoring the performance of slow learners
- Special assignment
- Lecture notes
- Personal log book
- Department activities
- Internal Marks calculation
- Slip Test Monitoring

1. 4 Feedback System

1.4.1 What are the contributions of the institution in the design and development of the curriculum prepared by the University?

The institution is affiliated to the JNTU, Kakinada. The curriculum and syllabi is designed and developed by the University. Based on the feedback received from the alumni and stakeholders the institution consolidates the feedback and forward to the university for consideration in developing the curriculum. The university also conducts meetings regularly and obtain opinion of teachers in the subject to formulate the course curriculum and syllabi. University also invites faculty to participate in workshops for curriculum development.

1.4.2 Is there a formal mechanism to obtain feedback from students and stakeholders on Curriculum? If “yes”, how is it communicated to the University and made use internally for curriculum enrichment and introducing changes/new programmes?

Yes. The college obtains feedback from the students, alumni, parents and employers.

- **Students:** Any difficulties expressed by the students are noted and the same is duly communicated to the university either through the senior faculty who are members in the various boards of studies/syllabus committees etc. or forwarded to the university when suggestions are invited during syllabus revision.
- **Alumni:** The alumni of the college who have moved on to industry or for higher studies also give a feedback on

NAAC - SELF STUDY REPORT

how their years in the institution have helped them perform in their places of work/study. The alumni also give constructive suggestions on helping the students achieve greater focus and improving themselves.

- **Parents:** The parents' meet conducted by college every semester apart from other issues enables parents to give suggestions regarding the curriculum of their wards.
- **Employers/ Industries:** Representatives of various industries give extremely useful feedback regarding the employability of the students and also their expectation from the students during the placement. These are noted and informed to the BoS.

The opinion of these stakeholders is communicated to the university authorities for necessary improvements.

1.4.3 How many new programmes/courses were introduced by the institution during the last four years? What was the rationale for introducing new courses/ programmes?)

New UG and PG programs introduced in different departments are listed below:

S. No	Department	Name of the programme	Starting Year
1	CIVIL ENGINEERING	B. Tech CE (120)	2009
		M.Tech(STRUCTURES)(24)	2013

Justification: The demand for post graduate courses has increased with growing market for civil engineering branch in government sector. This growth is due to the global development in infrastructure and construction industry, which enhanced the scope for PG education. In view of the above, it was intended to start new PG course and also to increase the intake of existing UG courses.

NAAC - SELF STUDY REPORT

S. No	Department	Name of the programme	Starting Year
1	Electronics and Communication Engineering	M. Tech DECS (18)	2012
		Intake in B.Tech (60)	2008
		Intake increased in B.Tech. from 60 to 120	2009
		Intake increased in B.Tech. from 120 to 180	2013

Justification for Introduction

1. M.Tech program in Digital Electronics and Communication Engineering:

The demand for Digital Electronics and Communication Engineering has increased with growing market during academic year 2011-12. There is a lot of scope for students in MNC's. This growth is due to the change in Government policy of promoting Research and Development in the country which enhanced the scope for PG education. In view of the above, it was intended to start new PG course.

2. B.Tech program in Electrical and Electronics Engineering:

The Objective of the program is to produce students who are well prepared for Indian Industry with necessary core competency to succeed long term in Engineering/Entrepreneurship careers(Post B.Tech) and who are well prepared to undertake PG studies and research studies.

S. No	Department	Name of the programme	Starting Year
1	EEE	M. Tech (PED)	2013

Justification for Introduction: M.Tech programme in Power Electronics and Drives demand for post graduate courses has increased with growing market for EEE branch during the academic year 2013-14. This growth is due to the change in Government policy of promoting Research and Development in the country and which

NAAC - SELF STUDY REPORT

enhanced the scope for PG education. In view of the above, it was intended to start new PG course.

S.No	Department	Name of the programme	Starting Year
1	Computer Science & Engineering	Intake increased in B.Tech. CSE from 60 to 120.	2011
2	Computer Science & Engineering	M. Tech CSE (36)	2012

Justification for Introduction : M.Tech programme in Computer Science: The demand for post graduate courses has increased with growing market for computer science branch during the academic year 2011-12. This growth is due to the change in Government policy of promoting Research and Development in the country and which enhanced the scope for PG education. In view of the above, it was intended to start new PG course and also to increase the intake of existing PG courses.

S.No	Department	Name of the programme	Starting Year
1	MECHANICAL ENGINEERING	Intake increased in B.Tech. ME from 60 to 120.	2012
2		Intake increased in B.Tech. ME from 120 to 180.	2014
3		M.TECH - 24 (THERMAL ENGINEERING)	2014

Justification for Introduction

1. Intake increase in B.Tech: Mechanical engineers have diversified job options with various multi-functionalities that can be done. The technology is changing continuously, in the mechanical engineering field. In India the growth of mechanical engineering is fast as the automobile, chemical, textile and other industries are upcoming and expanding at reasonably fast rate. Besides this now a

day's mechanical engineering students have tremendous growth and demand in Information technology, software development in banking field, mechanical design and analysis software's. Mechanical engineering is practically needed in every walk of life.

2. M.Tech programme in Thermal Engineering:

There are certain jobs, specific profiles in Mechanical Engineering for which M.Tech degree is essential. Post graduation in Mechanical engineering is good mainly from academic and industry research perspective. They have reasonable opportunities, more abroad than in India because of the presence of lot of manufacturing firms. Germany, Korea, Japan, and US are some of those countries where mechanical engineers, especially with specialization in thermal engineering can find good jobs. Students who possess a postgraduate degree in mechanical engineering can find jobs with the managerial or administrative departments of pioneer industries in the private sector. If they choose, it is also possible for them to go for industry research.

The rationale for introducing new courses in the institution:

- To strengthen the need based on the changing industry demands
- To improve manpower skills in specialized fields of engineering
- To establish centres of excellence in various streams of engineering
- To encourage research and development among the engineers.

Any other relevant information regarding curricular aspects which the college would like to include.

Outcome Based Education (OBE) is followed in the institute. Activities such as Assignments, Quizzes, Course seminar/Course project, and Subject proficiency test are conducted though, they are partially mentioned in the University Curriculum. OBE helps in continuous evaluation of the teaching-learning activities happening in the institute.

NAAC - SELF STUDY REPORT

CRITERION II:

TEACHING-LEARNING AND EVALUATION

2.1 Student Enrollment and Profile

2.1.1 How does the college ensure publicity and transparency in the admission process?

The admission process is based on the guidelines provided by Andhra Pradesh State Council for Higher Education (APSCHE). An advertisement is issued in leading national/regional daily news papers during the admission time which contains detailed information about the courses, intake of students, eligibility criteria. APSCHE offers wide publicity to effect admissions into different colleges / branches of the state for B.Tech, M.Tech & MCA programmes.

- Detailed information for admission into B.Tech, M.Tech & MCA Programs is made available through specific websites authorized by APSCHE (<http://www.apsche.org>). The Website details are given below.

Sl. No.	Course	Admission details available at the URL	Site Maintained By
UG	B.Tech	http://apeamcet.org/	APSCHE , Amaravathi
	B.Tech Lateral Entry	http://apcet.org/	APSCHE , Amaravathi
PG	M. Tech	http://www.appgecet.org/	APSCHE, Amaravathi
	MCA	http://www.apicet.org.in/	APSCHE, Amaravathi

The information regarding the college is also made available through

- The prospectus which gives the complete information about the college which includes courses available, facilities, staff details, rules and regulations etc.,

NAAC - SELF STUDY REPORT

- The college website <http://www.nrigroupofcolleges.com> which is updated on a regular basis gives the latest updated and detailed information about the college.
- The College has a niche for itself for quality education and as the college has grown up as one of the most preferred colleges in this region, we do not believe in advertisements as a mode to reach the public. However parents, students and the general public will know about the academic related activities organized in the college like seminars, conferences, workshops etc. through news papers.
- The admissions committee of the college ensures that admissions are based on the guidelines of APSCHE and utmost transparency is maintained in the entire process.

2.1.2 Explain in detail the criteria adopted and process of admission (Ex. (i) merit (ii) common admission test conducted by state agencies and national agencies (iii) combination of merit and entrance test or merit, entrance test and interview (iv) any other) to various programmes of the Institution.

Admission process is totally under the strict control of APSCHE and according to the guidelines mentioned in the various G.O's released by A.P. Govt. The seat allocation will be made in two categories.

UG Admissions & PG Admissions:

The students are admitted in four year Undergraduate (UG & PG) programmes in two categories.

Category-A

The first category, Category-A (Convener Quota) (UG)

Category-A seats constitute 70% of the total seats available in the College/branch. These seats are filled by the Convener, EAMCET.

APSCHE has well set tested regulations for admission of students for various Colleges / branches. The admissions are made as per the procedure detailed below:

- Issue of notification- published in the leading Newspapers and websites <http://www.apsche.org/>, <http://www.apearcet.org>
- Online prospectus and applications
- Submission of applications through Online
- Conducting the entrance test and publishing the results
- Preparation of consolidated merit (Rank) list

NAAC - SELF STUDY REPORT

Admission procedure:

- EAMCET counseling dates and schedule is notified in the websites as well as Newspapers.
- Students must know the EAMCET Counseling Procedure before appearing for it and also take mock counseling to get an idea on selecting the college/ branch. Candidates need to select the college/branch using EAMCET web counseling procedure.
- EAMCET online Web Counseling for selecting the college/branch is very simple to understand. <http://www.apsche.org>

Counseling:

- Verification of Certificates
- Exercising options to select the College/ branch through web counseling by entering the EAMCET rank, name and Hall Ticket number
- Editing the options(to change the College/Branch)
- Seat allotment as per the merit order and choice
- Paying the fee
- Reporting at the College allotted.
- The admission committee oversees the entire process in order to ensure transparency

Category-B:

The second category, Category-B (Management quota) (UG, PG & MCA):

Category-B seats constitute 30% of the total available seats. These seats are filled by the College Management as per guidelines of APSCHE. PG admissions are on the basis of the rank obtained in the GATE / PGECET / ICET or marks obtained in the qualifying Examination following a definite procedure, the Management maintains total transparency in filling the seats.

- Gives wide publicity in the print, electronic media and website about the availability of seats and the criteria of admission, course wise.
- Receives applications and prepares a list based on the order of merit as per the orders of Government of Andhra Pradesh.
- The list of selected candidates is displayed in the notice boards and College website.
- Reporting at the College allotted
- All the candidates admitted are ratified by the Govt. of A.P.

Lateral Entry:

There is a provision for Diploma / B.Sc. (MPC) Degree holders for admission in to II/IV B.Tech. (20% seats) under Lateral Entry Scheme. The admission is based on the ranks obtained in ECET conducted by APSCHE. Detailed information is available at the following url: <http://www.apecet.nic.in>

M.Tech and MCA

The students are admitted into the Postgraduate (PG) programmes in two categories. The first category, Category-A seats constitute 70% of the total seats in the Colleges/Branches. The second category, Category-B seats constitute 30% of the total available seats.

Category-A:

Category-A seats in MTech are filled by Convener, APSCHE based on the GATE / PGECET rank and seats in MCA programme are filled by Convener, APSCHE based on the ICET rank.

Category-B:

The second category, Category-B (Management quota) (PG & MCA):

Category-B seats constitute 30% of the total available seats. These seats are filled by the College Management as per guidelines of APSCHE. PG admissions are on the basis of the rank obtained in the GATE / PGECET / ICET or marks obtained in the qualifying Examination following a definite procedure, the Management maintains total transparency in filling the seats.

- Gives wide publicity in the print, electronic media and website about the availability of seats and the criteria of admission, course wise.
- Receives applications and prepares a list based on the order of merit as per the orders of Government of Andhra Pradesh.
- The list of selected candidates is displayed in the notice boards and College website.
- Reporting at the College allotted
- All the candidates admitted are ratified by the Govt. of A.P.

2.1.3 Give the minimum and maximum percentage of marks for admission at entry level for each of the programmes offered by the college and provide a comparison with other colleges of the affiliating university within the city/district.

The admission into UG / PG technical courses in Andhra Pradesh is based on the common entrance tests EAMCET / PGECET

NAAC - SELF STUDY REPORT

respectively. The best and last ranks of the students admitted under various categories in the academic year 2015-16 in the college affiliated to the University in this district is as indicated below.

UG 2015-16	NRIIT		USHARAMA		SRI SARATHI	
	Best Rank	Last Rank	Best Rank	Last Rank	Best Rank	Last Rank
CIVIL						
GEN-boys	23857	88106	62841	98233	COURSE NOT OFFERED	
GEN-girls	13525	103398	23001	110356		
BC - boys	22598	129353	30256	129693		
BC - girls	78850	84793	89656	129565		
SC - boys	84242	124944	95326	125655		
SC - girls	111441	111441	112365	114565		
ST - boys	102308	102308	113256	123692		
ST - girls	NA	NA	NA	NA		
EEE						
GEN-boys	43127	64912	57511	74698	49226	79854
GEN-girls	18369	93565	23656	115698	36598	123658
BC - boys	32164	121307	40698	123656	53691	141664
BC - girls	61803	101058	81236	113459	66105	101298
SC - boys	61394	125680	82365	126532	86548	129587
SC - girls	12696	128696	35565	129678	39613	139874
ST - boys	NA	NA	65985	65985	NA	NA

NAAC - SELF STUDY REPORT

ST - girls	NA	NA	NA	NA	NA	NA
MECH						
GEN-boys	19837	104071	22952	112569	35698	125466
GEN-girls	NA	NA	25698	58978	NA	NA
BC - boys	21734	130087	39562	130165	48362	131254
BC - girls	NA	NA	NA	NA	35985	85462
SC - boys	49493	124735	69535	125987	75235	126854
SC - girls	NA	NA	36589	39587	56987	75489
ST - boys	NA	NA	NA	NA	68547	110215
ST - girls	NA	NA	NA	NA	NA	NA
ECE						
GEN-boys	11441	46433	32550	76982	42565	85642
GEN-girls	13128	55626	23658	85698	36589	96582
BC - boys	26726	125153	35984	127152	69587	126521
BC - girls	26051	107251	39874	115466	45698	115652
SC - boys	72535	125890	86589	126987	98521	126587
SC - girls	43867	123863	69854	125879	85621	126872
ST - boys	49206	49206	65896	69874	72546	98542
ST - girls	NA	NA	NA	NA	112154	125436
CSE						
GEN-boys	12030	51424	23765	72365	36521	130291
GEN-girls	11154	40025	25698	82569	32524	121018

NAAC - SELF STUDY REPORT

BC - boys	32477	78617	36987	98568	40254	102546
BC - girls	13179	114065	26984	123658	39854	125648
SC - boys	55529	125922	73589	127891	69875	128698
SC - girls	62107	119668	65879	120548	68235	121365
ST - boys	NA	NA	65987	75236	NA	NA
ST - girls	NA	NA	NA	NA	89587	112456
IT						
GEN-boys	38879	60548	49938	80231	COURSE NOT OFFERED	
GEN-girls	29819	59360	48658	79854		
BC - boys	53325	119662	65982	125469		
BC - girls	58851	103618	69874	112587		
SC - boys	NA	NA	53685	98523		
SC - girls	NA	NA	NA	NA		
ST - boys	NA	NA	NA	NA		
ST- girls	NA	NA	98541	112365		
NA : No Admission In that Category						

2015-2016								
PG Programme: MCA & / M Tech								
BRANCH			MCA	M.Tech CSE	M.Tech DECS	M.Tech PE&D	M.Tech TE	M.Tech SE
OC	First Ran	BOYS	33418	---	6034	1488	1154	922
		GIRLS	8247	692	3657	4019	---	2041
	Last Ran	BOYS	33418	---	6034	1488	1154	4213
		GIRLS	8247	3675	30006	4019	---	2041
BC (BOYS)	A		12605	---	---	---	---	11919
	B		---	---	---	---	---	---
	D		21433	---	---	---	1040	---
	E		---	---	---	1685	---	2090

NAAC - SELF STUDY REPORT

BC (GIRLS)	A	---	5749	---	---	---	---
	B	---	1107	3888	2648	---	---
	D	48655	---	---	---	---	827
	E	12944	141	---	5290	---	---
SC	BOYS		4923	---	---	---	---
	GIRLS	7954	---	---	5987	---	---
ST	BOYS	---	---	---	911	---	---
	GIRLS	---	---	442	---	---	---
NOTE: --- Represents No admissions under this category							

2.1.4 Is there a mechanism in the institution to review the admission process and student profiles annually? If ‘yes’ what is the outcome of such an effort and how has it contributed to the improvement of the process?

Every academic year a review is conducted on the quality of intake in comparison with previous years and also with reputed colleges in this region to know the college standards. This process has helped in taking necessary curative measures to attract the better quality in the subsequent years. Although, this review has no effect on admission process as such, it has certainly helped the college to review its academic strategies to attract high quality input.

2.1.5 Reflecting on the strategies adopted to increase/improve access for following categories of students, enumerate on how the admission policy of the institution and its student profiles demonstrate/reflect the National commitment to diversity and inclusion *SC/ST, OBC, Women, Differently abled, economically weaker sections, Minority community, Any other

Since the total admission process is carried out and controlled by APSCHE, the college cannot devise any strategy to attract the above category students. All the admissions are made in accordance with reservation policies of AP State Govt. However the admissions under various categories indicate the national commitment to diversity and inclusion of underprivileged categories into the system.

SC/ST/OBC/Economically weaker sections:

The admission procedure for SC/ST/OBC/EWS students is as per the reservation policy of the State Government. Book bank facility is provided for SC/ST students. Fee reimbursement is given by the state government to the SC/ST/OBC/ EWS students.

NAAC - SELF STUDY REPORT

Women:

- 33% of seats are reserved for women in convener quota as per reservation policy of the state government. They can also compete under open category.
- A women empowerment & grievance cell, headed by one senior lady staff member, one lady faculty member from each department is constituted. This cell is meant for the welfare of girl students and lady staff members.

Differently abled:

- Differently abled students are allotted seats as per the reservation policy of the state government.
- For them, classes are held in the ground floor where ramps are available.
- Computer centre facility is available in the ground floor.
- Separate toilets are provided for such students.
- Seats in front row are reserved for them in the classrooms.

Minority Community:

Reservation is available to the minority community as per the state government's policies.

U.G.Seats:						
Category	Gender	2011-12	2012-13	2013-14	2014-15	2015-16
OC	M	140	182	242	289	237
	F	104	147	157	171	157
BC-A	M	33	33	30	22	40
	F	9	15	9	13	14
BC-B	M	44	48	60	62	77
	F	25	32	16	30	35
BC-C	M	3	3	14	6	8
	F	3	5	6	4	5
BC-D	M	59	56	67	65	93
	F	19	15	16	23	36
BC-E	M	16	19	15	14	32
	F	6	7	7	8	7
SC	M	55	73	44	62	66
	F	15	16	14	22	29
ST	M	3	1	4	6	6
	F	1	2	1	--	--

NAAC - SELF STUDY REPORT

P.G.Seats (MCA)						
Category	Gender	2011-12	2012-13	2013-14	2014-15	2015-16
OC	M	18	17	4	1	1
	F	19	11	3	3	3
BC-A	M	4	2	--	1	1
	F	--	2	--	--	--
BC-B	M	5	5	1	--	--
	F	1	3	2	1	--
BC-C	M	--	--	--	--	--
	F	--	-	1	--	--
BC-D	M	8	4	1	1	3
	F	--	1	2	--	1
BC-E	M	--	1	-	--	1
	F	1	--	1	--	1
SC	M	1	--	2	--	--
	F	--	2	1	--	1
ST	M	--	2	--	--	--
	F	--	1	--	--	--

P.G.Seats (M.Tech)						
Category	Gender	2011-12	2012-13	2013-14	2014-15	2015-16
OC	M	Course not offered	7	21	15	11
	F		6	21	18	12
BC-A	M		--	2	5	1
	F		--	--	4	1
BC-B	M		2	2	8	2
	F		2	4	7	6
BC-C	M		--	--	1	3
	F		--	2	--	1
BC-D	M		1	3	7	2
	F		2	8	--	4
BC-E	M		--	--	1	1
	F		--	--	--	2
SC	M		2	3	5	5
	F		2	5	6	7
ST	M		1	--	2	--
	F		--	--	--	--

NAAC - SELF STUDY REPORT

Total seats :								
B.TECH	General		OBC		SC		ST	
	M	F	M	F	M	F	M	F
2011-12	158	123	172	61	56	15	3	1
2012-13	206	164	174	84	75	19	2	2
2013-14	267	181	194	74	49	20	4	8
2014-15	225	192	194	90	53	28	1	0
2015-16	249	172	269	108	71	37	6	0

2.1.6 Provide the following details for various programmes offered by the institution during the last four years and comment on the trends. i.e. reasons for increase /decrease and actions initiated for improvement.

The demand ratio for the admissions under Category-A cannot be analyzed as the entire process of student preferences and seat allocation is made online by APSICHE and the data cannot be acquired by the institute.

However As per APSICHE notification, apex body of the state which conducts Engineering admissions, NRIIT is in the Top-Ten Most Preferred Colleges out of 700+ private Engineering Colleges in the state of AP.

The details of the seats filled up under Category – A, for the last 5 years in different branches is as given below.

U.G. Programmes :										
Branch	2011-12		2012-13		2013-14		2014-15		2015-16	
	Sancti oned strengt h	Stud ents Enro lled	Sancti oned strengt h	Stud ents Enro lled	Sancti oned Streng th	Stud ents Enro lled	Sancti oned strengt h	Stud ents Enro lled	Sancti oned Streng th	Stud ents Enro lled
EEE	60	60	60	60	60	42	60	40	60	55
ECE	120	120	120	120	180	168	180	180	180	180
CSE	120	120	120	120	180	179	180	180	180	180
IT	60	60	60	59	60	0	60	50	60	60

NAAC - SELF STUDY REPORT

CIVIL	60	60	120	60	120	106	120	110	120	119
Mechanical	60	60	120	60	180	120	180	134	180	152

Under Category – A, all the seats filled up in ECE, EEE, CSE, Mechanical and Civil. The seats are not filled up in IT completely because of the global recession which is affecting the IT sector.

P.G. Programmes :										
	2011-12		2012-13		2013-14		2014-15		2015-16	
Branch	Sanctioned strength	Students Enrolled	Sanctioned strength	Students Enrolled	Sanctioned strength	Students Enrolled	Sanctioned strength	Students Enrolled	Sanctioned strength	Students Enrolled
MCA	120	57	120	47	120	18	120	7	120	12
M.Tech	M.Tech course Not offered		--	--	--	--	18	15	18	13
M.Tech			18	18	36	35	36	29	36	13
M.Tech			18	17	18	18	18	13	18	10
M.Tech			--	--	18	18	18	17	18	18
M.Tech			--	--	--	--	18	5	18	4

The demand for Category B seats (30%) of seats for UG is as given below.

Number of applications received and admitted student's data -B – Category seats.

Programmes	Number of Students Applications	Number of students Intake	Demand ratio
UG & PG Courses (2015-16)			
Electrical & Electronics Engineering	12	18	0.6

NAAC - SELF STUDY REPORT

Electronics and Communication Engineering	75	54	1.3
Computer Science and Engineering	85	54	1.5
Information Technology	18	18	1.0
Civil Engineering	30	36	0.8
Mechanical Engineering	36	54	0.6
M.Tech (Power Electronics & Drives)	8	5	1.6
M.Tech (Digital electronics & Communication Systems)	3	5	0.6
M.Tech (Computer Science& Engineering)	3	10	0.3
M.Tech (Thermal Engineering)	2	5	0.4
M.Tech (Structural Engineering)	4	5	0.8
UG & PG Courses (2014-15)			
Electrical & Electronics Engineering	20	18	1.1
Electronics and Communication Engineering	70	54	1.2
Computer Science and Engineering	80	54	1.4
Information Technology	25	18	1.3
Civil Engineering	40	36	1.1
Mechanical Engineering	60	54	1.1
M.Tech (Power Electronics & Drives)	9	5	1.8
M.Tech (Digital electronics & Communication Systems)	5	5	1
M.Tech (Computer Science& Engineering)	7	10	0.7
M.Tech (Thermal Engineering)	3	5	0.6
M.Tech (Structural Engineering)	6	5	1.2
UG & PG Courses (2013-14)			
Electrical & Electronics Engineering	19	18	1.1

NAAC - SELF STUDY REPORT

Electronics and Communication Engineering	65	54	1.2
Computer Science and Engineering	70	54	1.2
Information Technology	0	18	0.0
Civil Engineering	41	36	1.1
Mechanical Engineering	65	54	1.2
M.Tech (Power Electronics & Drives)	10	5	2.0
M.Tech (Digital electronics & Communication Systems)	9	5	1.8
M.Tech (Computer Science& Engineering)	15	10	1.5

2.2 Catering to Student Diversity

2.2.1 How does the institution cater to the needs of differently-abled students and ensure adherence to government policies in this regard?

The institution is fully adhering to Andhra Pradesh Government policies regarding the needs of differently-abled students. In the college, special attention is given and their needs are taken care of during the course of study. For the differently-abled students (physical disability), the classroom is allotted on the ground floor if necessary. Ramps are provided in the Civil and Mechanical blocks for the benefit of such students.

2.2.2 Does the institution assess the student's needs in terms of knowledge and skills before the commencement of the programme? If 'yes', give details on the process.

The institution is well aware of the student needs as they progress from intermediate /+2 programme to a technical course and tries to educate the students accordingly. The assessments of the students needs are in the following ways.

- Bridge courses are conducted in Mathematics, Physics and Chemistry for the newly admitted students before commencement of class work.
- Special classes are organized for the lateral entry students who are admitted in II Year after their diploma course.

NAAC - SELF STUDY REPORT

2.2.3 What are the strategies adopted by the institution to bridge the knowledge gap of the enrolled students (Bridge/Remedial/ Add-on/Enrichment Courses, etc.) to enable them to cope with the programme of their choice?

- To reduce the knowledge gap of the enrolled students the institute adopts different strategies and action plans. They are as listed below.
- The institution conducts remedial classes / tutorial classes for slow learner's in different subjects to enhance their skills and competence.
- Personality Development programmes are conducted to improve their personality and to motivate them to be innovative and creative.
- Communication Skills lab has been established to improve English proficiency, particularly for students from rural background.
- Industrial visits are arranged to make students understand the practical applicability of various theoretical aspects that were learnt in the class room.

Add-on Courses:

The following additional courses are taught to the students:

B. TECH:

S.NO.	DEPARTMENT	ADDITIONAL COURSES
1	Civil Engineering	1. Training on Geographical Information System is arranged 2. Field visits are arranged 3. Various models are used for class room instruction
2	Computer Science and Engineering	1. Computer Programming for Lateral Entry students as bridge course. 2. App development on windows 8 & Windows phone as add on courses. 3. MATLAB for doing Project Work.
3	Electronics and Communication Engineering	1. New electronic design software's like LabVIEW, PSPICE, MATLAB v7. 2. Embedded systems as bridge course, campus recruitment & Placement as bridge course. 3. C programming for Lateral entry students as Remedial course.
4	Electrical and Electronics Engineering	Latest software/packages like MATLAB, PSPICE, SIMULINK etc.
5	Information Technology	1. Computer Programming for Lateral Entry students as bridge course. 2. App development on windows 8 & Windows phone as add on courses.

NAAC - SELF STUDY REPORT

		3. MATLAB for doing Project Work.
6	Mechanical Engineering	1. Training on Latest CAD package. 2. Flexible Manufacturing System

M. TECH:

S.NO.	DEPARTMENT	ADDITIONAL COURSES
1	Civil Engineering	Latest Software packages like STAAD Pro V8 and Ansys
2	Computer Science and Engineering	1. App development on windows 8 & Windows phone as add on courses. 2. Cloud programming to introduce up to date technologies 3. MATLAB for implementation of projects.
3	Electronics and Communication Engineering	1. Latest software's and New Electronic Design software's like LabVIEW
4	Electrical and Electronics Engineering	Latest software/packages like MATLAB, PSPICE, SIMULINK etc.
5	Mechanical Engineering	1. Training on Latest CAD package. 2. Flexible Manufacturing System 3. Course on Futuristic Trends on Fabrication.

Bridge Courses

- For I Year UG students bridge courses are conducted as per the guidelines provided by the Affiliating University as mentioned in 2.2.2.
- For the lateral entry students (admitted directly to the second year) bridge courses are being conducted for 15 days at the beginning of the semester in Mathematics.
- E-learning material is made available {NPTEL etc.} for the self-paced learning by the slow learners.
- Campus Recruitment Training Programmes are conducted by the Training & Placement cell to improve Communication skills, Personality Development, etc.

2.2.4 How does the college sensitize its staff and students on issues such as gender, inclusion, environment etc.?

The institution has the tradition of imparting holistic education with emphasis on ethical, moral and environmental issues.

NAAC - SELF STUDY REPORT

The college sensitizes its staff and students on issues such as environment etc. by organizing seminars on the relevant topics like pollution control, through NSS activities etc.

Women's Grievances Redressal cell is constituted in the college and it is headed by one senior lady staff member. This cell looks after the welfare of girl students and women staff members.

2.2.5 How does the institution identify and respond to special educational/learning needs of advanced learners?

- Basing on the performance in the internal examinations, performance in the class and in the class tests, the advanced learners are identified. These students are encouraged to set higher goals. The needed guidelines and support is extended by the faculty for their career planning and growth.
- Encourage them for class room seminars, group discussions and technical quiz that develop analytical, problem solving and presentation skills.
- Importance of research activity is stressed.
- Motivate them to publish and present papers at national and international conferences
- Motivate them to do certification courses
- Encourage them to assist slow learners in peer tutoring classes
- Special training is given for GATE , CAT, GRE, TOFEL & IELTS
- Special coaching is given to improve communication skills
- Seminar topics are given and encouraged to develop public speaking skills
- Reference books, journals are suggested to be beyond the syllabus

Thus the students with higher learning skills are supported by the college.

2.2.6 How does the institute collect, analyze and use the data and information on the academic performance (through the programme duration) of the students at risk of drop out (students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections etc. who may discontinue their studies if some sort of support is not provided)?

- The college has a proctorial system in place wherein 15 students will be allocated to faculty who will be acting as their mentor / counselor. Their attendance, marks and performance will be regularly monitored by the mentor and corrective measures are initiated whenever needed through counseling by the mentor or by the Head of the Department or Principal.

NAAC - SELF STUDY REPORT

- Slow learners are those students who are many times the less self-motivated. The college understands that such students have a sense of failure tendency. If they fail in some subjects in the initial semesters, they lose faith in themselves which has demotivating effect and they may fail further. The proctorial system helps them and also remedial classes are organized regularly to instill self-confidence in performing well in the exams.
- Such under-performing students also have a tendency to miss the class work. Regularly, monthly reports will be sent to parents of such students and they are advised to counsel their wards apart from the counseling done at the college level.
- The entire faculty generally makes their lecture notes available to the slow learners if they wish to have.

2.3 Teaching-Learning Process

2.3.1 How does the college plan and organize the teaching, learning and evaluation schedules? (Academic calendar, teaching plan, evaluation blue print, etc.)

Academic calendar:

JNTU Kakinada issues the Academic calendar and it is available on the university portal at the beginning of each academic year and circulated among all the departments and also displayed on notice boards and website. Based on the academic calendar, the college formulates academic schedule is made for each year before the academic programs start.

The following information is available in the given Academic Schedule:

- Starting of Odd and Even Semester classes.
- Dates for mid/internal semester examinations.
- Sending of internal marks.
- Sending of assignment marks.
- Dates for end semester examinations.
- Tentative dates for internal Lab Exams.

The model academic schedule is as shown below:

Academic Calendar for B.Tech IV Year –I Semester for the academic year 2016-17:

I SEMESTER

S.No.	Event	Period	Duration
1	Commencement of class work	27-06-2016	

NAAC - SELF STUDY REPORT

2	I Spell of instructions	27-06-2016 20-08-2016	to	8 weeks
3	Krishna Pushkaralu Holidays	14-08-2016 21-08-2016	to	1 week
4	I Mid Examinations- Timings:02.30PM to 04.00PM	22-08-2016 27-08-2016	to	1 week
5	Posting of I Mid Marks	30-08-2016		
6	Continuation of II Spell of instructions	29-08-2016 22-10-2016	to	8 Weeks
7	II Mid Examinations: 02.30PM to 4.00PM	24-10-2016 29-10-2016	to	1 Week
8	Posting of II Mid Marks	01-11-2016		
9	Internal Lab Exams- Timings: 09.30AM to 04.00PM	31-10-2016 05-11-2016	to	1 Week
10	End Semester Examinations	07-11-2016 19-11-2016	to	2 Weeks
11	Commencement of class work for II Semester	05-12-2016		

II SEMESTER

S.No.	Event	Period		Duration
1	Commencement of class work	05-12-2016		
2	I Spell of instructions	05-12-2016 28-01-2016	to	8 weeks
3	I Mid Examinations- Timings:02.30PM to 04.00PM	30-01-2017 04-02-2017	to	1 week
4	Posting of I Mid Marks	07-02-2017		
5	Continuation of II Spell of instructions	06-02-2017 01-04-2017	to	8 Weeks
6	II Mid Examinations: 02.30PM to 4.00PM	03-04-2017 08-04-2017	to	1 Week
7	Posting of II Mid Marks	11-04-2017		
8	External Project Viva Voce- Timings: 09.30AM to 04.00PM	22-04-2017		1 Day
9	End Semester Examinations	17-04-2017 29-04-2017	to	2 Weeks

Teaching Plan:

The Teaching plan for each subject is prepared by the faculty well in advance, before the commencement of the semester and they are duly checked by respective HODs.

The teaching plan file for each subject consists of Lecture schedule, notes, assignments, old question papers, content beyond syllabus, mid-term question papers and model answer scripts.

Review meetings are arranged periodically to review the coverage of syllabus. Teacher uses teaching aids like OHPs, LCDs wherever necessary. Assignment and tutorials are given. Class tests are conducted. All the faculty members use attendance registers for the theory as well as laboratory courses. It contains details of students register number, name, attendance details, period wise syllabus coverage, periodical test marks, attendance percentage and internal assessment marks .

Evaluation blueprint:

- Twice in a semester mid exams are conducted. An on line objective test and a descriptive test are conducted for each subject.
- Internal lab examinations are conducted once in every semester.
- Continuous evaluation procedure is followed for practicals as per University guidelines.
- University conducts end semester examinations in both theory and practicals.
- Evaluation of main projects is also done by the University.

2.3.2 How does IQAC contribute to improve the teaching – learning process?

The college has constituted Internal Quality Assurance Cell (IQAC). The IQAC is constituted and takes the following activities:

- Development of Quality benchmark / parameters for various academic and administrative activities of the institute.
- Organization of workshops, seminars and quality related themes.
- Conducting internal quality audit periodically.
- Timely, efficient and progressive performance of academic, administrative and financial tasks.
- The relevance and quality of academic and research programs.
- Equitable access to and affordability of academic programs for Students.
- Optimization and integration of modern methods of teaching and learning.

2.3.3 How is learning made more student-centric? Give details on the support structures and systems available for teachers to develop skills like interactive learning, collaborative learning and independent learning among the students?

NRIIT believes in student-centric learning and supports creative learning environment, where students think on their own and interact with peers and teachers which provides diversified learning environment and creates an environment for real communication.

The College supports student-centric learning through its efforts at creating a learning atmosphere which allows students to think in different way, respond and pose questions. The basic methodology adopted is to provide students with a diversity of learning experiences.

Faculty are eager to guide in many student centric activities like:

- Seminar Presentation by the student.
- Industry oriented mini project.
- Major Project in latest technology.
- Internet exposure.
- Internship with industry.
- Such exposures create confidence to students to improve student learning and knowledge management.
- They show leadership qualities in organizing college events like “SUNRISE”, a two day national level technical symposium.

2.3.4 How does the institution nurture critical thinking, creativity and scientific temper among the students to transform them into life-long learners and innovators?

The college encourages critical thinking, creativity and scientific temper among the students by:

- Conducting workshops,
- Symposiums
- Inviting eminent persons from the industry and academia.
The college provides students with state of the art laboratories to enrich the knowledge and capabilities of students for their effective growth in academics, so that they can have effective learning. It is equipped with several amenities like:
 - OHP
 - LCD Projectors
 - NPTEL Videos
 - Digital library
 - Computer lab with LAN and Internet Connectivity

- Multimedia Kits
- Learning Management System to various subjects
All the facilities are provided to the students during his /her course.

2.3.5. What are the technologies and facilities available and used by the faculty for effective teaching? E.g.: Virtual laboratories, e-learning - resources from National Programme on Technology Enhanced Learning (NPTEL) and National Mission on Education through Information and Communication Technology (NME-ICT), open educational resources, mobile education, etc.

NRIIT makes all efforts to impart technologies and facilities available to the faculty for effective teaching. The institute uses modern multimedia teaching aids like multimedia projectors, internet enabled computers, white-boards in classrooms for effective presentation of the subject. Resources from NPTEL, NMEICT and other resources are made available to the students and staff.

NRIIT provides e-Learning facility for faculty and students to use NPTEL videos, Globarena Material, E-Articles of journals. Faculty communicate with the students through internet for giving the assignments and class notes will be posted on the internet.

2.3.6 How are the students and faculty exposed to advanced level of knowledge and skills (blended learning, expert lectures, seminars, workshops etc.)?

NRIIT organizes various seminars, expert lectures, conferences and workshops for students and faculty to advance in the level of knowledge and skills. It also encourages them to keep pace with recent developments in their disciplines by pursuing research journals, latest reference books, participating in national seminars / workshops / symposium / summer schools / Industrial visit /refresher courses / internet browsing and interactions with experts. The students are encouraged to read the magazines, journals, CD-ROM data bases and latest information available on the internet & in the library. The faculty members are deputed to the faculty development programs organized by reputed universities, IITs and NIITs. Faculty and students are also advised to take part in National and international technical conferences.

2.3.7 Detail (process and the number of students \benefitted) on the academic, personal and psycho-social support and guidance services (professional counseling /mentoring/academic advise) provided to students?

At NRIIT there is a provision of counselor, each class divided into groups of 15-20 students and a Councilor from the department interacts

with the students every now and then. A separate counseling session is arranged every week and the allotted teacher counselor looks after certain aspects i.e., academic, personal, and psycho-social support and guidance on professional counseling, mentoring, motivation, and skills development. If any problems are identified, the student will be sent to the professional advisor.

2.3.8 Provide details of innovative teaching approaches/methods adopted by the faculty during the last four years? What are the efforts made by the institution to encourage the faculty to adopt new and innovative approaches and the impact of such innovative practices on student learning?

Some of the teachers use the following innovative techniques in addition to conventional lecture methods.

- **Project –based learning:**
This method is mostly used to improve the ability of application and also to reinforce knowledge given during the lecture. Being a technical institute, this method is extensively used to provide empirical evidence of theory learnt. Students are asked to prepare projects involving application of the concepts, principles or laws learnt. The teacher guides the students at various stages of developing the project and gives timely inputs for the development of the model.
- **Seminar method:**
From time to time, the teacher involves the active (advanced learners) students into the seminar method. A student is advised to come prepared on a pre-assigned topic and present a seminar in the presence of the faculty and classmates. This method is very effective in motivating students to undertake extensive reading and develop communication and presentation skills.
- **Computer-Assisted Learning:**
It is one of the effective methods in teaching-learning process particularly in core subjects. It is extensively used for visualizing, analysing and understanding complex topics and in interpretation of large data.
- **Experiential Learning:**
Each Department organizes short and long industrial study tours. A couple of teachers accompany the students and explain the various processes which they have learnt in the classroom and adopted in the industry.

As an outcome of these innovative techniques the students are equipped with the latest technologies, their trends and impact of their usage in the society. Confidence levels of students are enhanced enabling them to participate actively in all competitions.

2.3.9 How are library resources used to augment the teaching- learning process?

The institution has a very good central library located on the first floor in the main building. The library is the knowledge hub of any college. NRIIT library offers different services to augment the teaching-learning process. It is opened even beyond working hours.

The resources available

Titles	:	3156
Total No. of Volumes	:	20366
e- Journals	:	25 + 16,00,000 (NDL Online)
Print Journals	:	74
Digital Library	:	Yes 30 computers are available with multi- media & internet facility NPTEL and 600+other video E- courses are available

2.3.10 Does the institution face any challenges in completing the curriculum within the planned time frame and calendar? If „yes“, elaborate on the challenges encountered and the institutional approaches to overcome these.

“Yes “, This type of situation occurs rarely that the faculty has not been able to complete the curriculum within the stipulated timeframe. The teachers manage to successfully shoulder their responsibilities. Sometimes because of natural calamities and local Holidays, institution faces challenges in completing the curriculum but the college tries to overcome these challenges through extra classes. The HOD keeps a check on the syllabus covered. Faculty conducts extra classes and students are motivated to complete the work on day to day basis. Agitations in the state disturbed two academic years. This interruption is compensated by arranging extra classes. Unforeseen interruption of the class work is compensated by arranging extra classes. The syllabus coverage is monitored by IQAC and remedial measures are suggested to the teachers, if any lacuna is found.

For all the iv year students C, Java Programming classes are conducted to perform well in the placement drives. Group Discussions and Mock interviews are conducted.

NAAC - SELF STUDY REPORT

2.3.11 How does the institute monitor and evaluate the quality of teaching learning?

The feedback from students on faculty performance is taken twice in a semester to evaluate the teacher performance in class room teaching on 12 parameters on a 5 point scale. The feedback is analyzed and evaluated on the score of 100 and every teacher is provided with a copy of feedback for taking necessary corrective action. Further, teachers are counseled by the head of the department and also by the Principal if required. Monitoring is also done through class work review committees (CWRC) to assess the uniformity in syllabus coverage, and also the quality of teaching.

Annual reviews are conducted on detailed self-appraisal forms to evaluate the performance on teaching, research and other performance related issues. The quality of course material, assignments and question papers prepared by the faculty are assessed internally and suitable suggestions are given.

2.4 Teacher Quality

2.4.1 Provide the following details and elaborate on the strategies adopted by the college in planning and management (recruitment and retention)of its human resource(qualified and competent teachers)to meet the changing requirements of the curriculum.

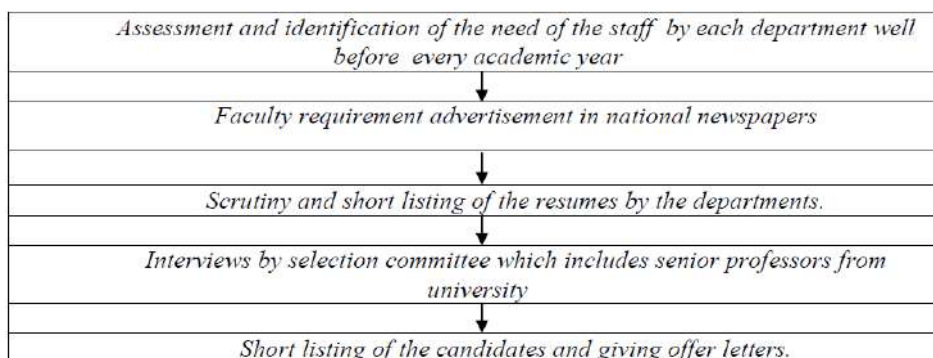
The college looks for the best faculty who have expertise in their field of study.

Faculty details

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.	0	0	0	0	0	0	0
Ph.D.	12	1	4	2	2	3	24
M. Phil.	0	0	0	1	7	6	14
PG	3	0	7	0	72	52	134
UG	0	0	0	0	5	13	18
Temporary teachers							
Ph.D.	Nil						
M. Phil.							
PG							
Part-time teachers							
Ph.D.	Nil						
M. Phil.							
PG							
GRAND TOTAL	15	1	11	3	86	74	190

NAAC - SELF STUDY REPORT

The college recruits qualified, experienced and capable faculty well before the starting of the academic year and also as and when the need arises and thus maintains a faculty student ratio as per the AICTE norms. A systematic procedure is followed for the recruitment of the faculty as given below.



A healthy and good retention ratio is maintained in the faculty cadre by creating a good environment and providing incentives as detailed below.

- Special academic leave for research and PhD work.
- Sponsoring for higher education
- Incentives for paper publications
- Sponsoring for seminars / workshops etc.
- Group insurance scheme.

2.4.2 How does the institution cope with the growing demand/ scarcity of qualified senior faculty to teach new programmes/ modern areas (emerging areas) of study being introduced (Biotechnology, IT, Bioinformatics etc.)?

The college has qualified faculty to handle all the subjects as proposed in the curriculum of JNTUK to which the college is affiliated. In all the new courses added and to teach subjects of emerging areas, the college has always strived to employ persons of repute with domain expertise. The young faculty are encouraged to pursue their Ph.D through QIP/ Part time programme and get the expertise in latest emerging areas. For eg., there are good number of faculty having expertise in the emerging areas of Nano- Technology, cloud computing, artificial intelligence, robotics etc. The institute always strives to give the best input to the students. A step in this direction is taken by utilizing the services of retired faculty from universities / NITs. to enhance the efficacy of teaching learning processes.

NAAC - SELF STUDY REPORT

2.4.3 Providing details on staff development programmes during the last four years elaborate on the strategies adopted by the institution in enhancing the teacher quality.

The Institute believes that the faculty should hone up their skills at regular intervals and upgrade their knowledge. The faculty is liberally nominated to undergo various training programmes and the details are given below.

a) Nomination to staff development programmes (Faculty trained through different staff development programmes)

Academic Staff Development Programmes	Number of faculty nominated
Refresher courses	13
HRD programmes	5
Orientation programmes	13
Staff training conducted by the university	12
Staff training conducted by other institutions	27
Summer / winter schools, workshops, etc.	46

b) Faculty Training programmes organized by the institution to empower and Enable the use of various tools and technology for improved teaching- learning

Teaching learning methods/approaches:

Yearly twice, each department of the college share, discuss and update their knowledge in respective fields. The staff gets awareness of latest emerging technologies and the latest trends and the same is shared among themselves. They are encouraged to attend national, international seminars for presenting papers and for workshops to enhance their skills. The concepts that are discussed in the seminars are shared and knowledge is imparted in the department. This helps the other faculty to know the different trends. Internal seminars are conducted in the college regarding faculty research work. Suggestions and analysis are also being done. The whole process makes them aware of the latest development in technology there by empowering the teachers to improve their knowledge, teaching methods and research abilities. Faculty is encouraged to participate in the FDP program organized by JNTU Kakinada whenever new courses are introduced and syllabus is modified.

NAAC - SELF STUDY REPORT

The Principal, all Hod's, Senior faculty and other interested faculty participate in the programme. New faculty gets good exposure and the programme enables them to enrich their knowledge and skills. Computer Science Department trains the faculty to use audio- visual aids and multimedia which are incorporated into their teaching-learning process, the departments are provided with these facilities. Internet access, digital library, Seminars, Symposiums and workshops help the faculty in developing teaching plan and course files.

Handling new curriculum:

The college has experienced and qualified faculty to handle the new curriculum effectively. HOD calls for the meetings with the faculty members to brief and explain the new syllabus and device methods to empower the teachers to handle the new courses Faculty members are asked to attend the FDP Programmes offered by the affiliating JNTUK for new courses.

Content/knowledge management:

In the area of content / knowledge management system our faculty members are deputed for National and International seminars/ Field visits and also train the trainer programs which help largely to update their knowledge and skills.

Selection, development and use of enrichment materials:

The college organizes seminars, workshops, dissemination workshops, to enrich all practices and aspects of teaching and learning process. Further the faculty members receive invitations from various institutions to act as resource persons. They also present paper in the leading national and International Conferences. Newly inducted faculty will be given orientation program by the Principal, HoD's of various departments which enable the new faculty to enrich their knowledge.

Assessment:

The self – appraisal report is one of the major yard sticks used for the promotion of the faculty. It gives a clear picture in terms of research needs. Suggestions to improve the academic system is given by the faculty through Self – Appraisal Report which is used as a reference by the college.

Cross cutting issues:

Seminars and workshops are conducted wherein experts from industries /academia are invited to share and deliver their knowledge and experience to sensitize and bring out awareness about the gender

NAAC - SELF STUDY REPORT

issue and empowerment of women and upliftment of socially and economically weaker society

Audio Visual Aids/multimedia:

Faculty members are trained to use audio visual aids and multimedia in the Class room. All departments are provided with audio visual aids and teaching learning aids.

Teaching learning material development, selection and use:

Faculty members are given free access to internet which helps them to traverse through ocean of learning materials. The college has a well stocked library containing both reference and text books of various subjects. Further attending and organizing seminars, symposiums and workshops also help the faculty in developing the course materials.

c) Percentage of faculty

1	Invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies	05%
2	Participated in external Workshops / Seminars / Conferences recognized by national/ international professional bodies	44%
3	Presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies	47%

2.4.4 What policies/systems are in place to recharge teachers? (eg: providing research grants, study leave, support for research and academic publications teaching experience in other national institutions and specialized programmes industrial engagement etc.)

There are about 45 teachers who have registered for Ph.D.The institution grants study leave and OD for their course work. Faculty is sponsored for seminars, Conferences, Workshops and Symposiums. Senior faculty is given desktop with internet facility and Wi-Fi. For other faculty systems are provided in the computer lab with Wi- Fi and Internet access. Seminars, Workshops, symposiums and FDP's are conducted for the faculty. Faculty is also encouraged to publish papers.

NAAC - SELF STUDY REPORT

2.4.5 Give the number of faculty who received awards / recognition at the state, national and international level for excellence in teaching during the last four years. Enunciate how the institutional culture and environment contributed to such performance/achievement of the faculty.

S.No	NAME OF THE FACULTY	AWARD
1	Dr.D.KAILASA RAO	a. Received Best Teacher Award from Government of Andhra Pradesh during 2005. b. Received Best Teacher Award from Kanthi Social Organization, Vijayawada 2006 c. Received Mahatma Gandhi Gold Medal National Award – 2014 for educational and Service Activities. d. Received Dr. Abdul Kalam Gold Medal National Award 2015 for outstanding Research and Educational Activity. e. Received Vidya Ratna Award from Social Needs Education and Health Association (SNEHA) State Level Award, Tirupati f. Attended duty without taking any leave including Casual Leave for 23 years and received appreciation from the Management of Sarada College.
2	Dr.N.SAMBA SIVA RAO	a. Received Best Teacher Award from JNTUK during 2014 b. Received Best Researcher Award from JNTUK during 2014

2.4.6 Has the institution introduced evaluation of teachers by the students and external Peers? If yes, how is the evaluation used for improving the quality of the teaching-learning process?

“Yes”, At the end of each semester the students give feedback of the faculty who taught the specific subject for twice. Such evaluation is really improving the quality of teaching learning process among the faculty members. A faculty/teacher is really able to understand the areas he/she is strong and weak and can correct the mistakes

automatically with the help of the feedback that is given by the students.

A feed-back pro-forma is given at the end of each semester each student. The whole process is highly confidential. This evaluation helps teachers to understand their teaching ability and encourages them to improve their teaching abilities as well as teaching learning process and they also realize the areas in which they are strong and where they are weak. The process helps the teacher to evaluate himself/herself.

2.5 Evaluation Process and Reforms

2.5.1 How does the institution ensure that the stakeholders of the institution especially students and faculty are aware of the evaluation processes?

The regulations R7, R10, R13, R16 give detail evaluation process. College website and university (JNTUK) website offers the regulations, curricular and syllabi in the portal. If any instruction is made regarding this, that will be informed to the students. The instructions are sent to the class rooms and are read by the faculty and the same is display on the notice board.

Students are informed about the internal and external assessment process, importance of attendance, pass percentage and they are made aware of eligibility criteria for writing the end semester exams. Regularly staff meetings are conducted regarding evaluation process and take measures that are needed for the smooth application of the rules about the evaluation process. Instructions received from the university are promptly intimated to the students. In the orientation programme the first year students and parents are informed about the process of evaluation. Class teachers and individual subject teachers inform the students about internal and external assessment and the eligibility criteria for writing exams. Mock test is conducted before they take real on-line exam in the first mid for freshers.

2.5.2 What are the major evaluation reforms of the university that the institution has adopted and what are their forms initiated by the institution on its own?

External examiner evaluates the project work. University seating plan and set no. for external examination are strictly followed. If the student wants, there is a provision for re-counting, re-evaluation and challenge re-valuation. Credits are given for each subject and needs required credits to qualify B.Tech examination. Examiners are sent to the practical examinations and Viva-Voce evaluate. They correct semester scripts and analyze students' ability. The process is based on the

NAAC - SELF STUDY REPORT

instructions given by the University. Result analysis is done for each semester. This helps to plan strategies to improve the pass percentage.

The institution adopts the reforms that are initiated by the University. Mid examination are conducted at two intervals, descriptive tests and objective tests and assignments are for internal evaluation. Objective tests are conducted by JNTU Kakinada on-line. For practical examination, a student is continually evaluated throughout the semester and internal lab exam is conducted for 25Marks. University appoints an external examiner and teacher concerned conduct the external lab examination which is for 75% marks. Project work is continuously monitored and continuous reviews make the final year students strong.

2.5.3 How does the institution ensure effective implementation of the evaluation reforms of the university and those initiated by the institution on its own?

The evaluation reforms of the University are followed meticulously and scrupulously Transparency is maintained. Internal descriptive answer booklet is shown to the students and gets that signed by the student. The marks are entered in the web portal of JNTUK University. The result and attendance is also displayed in the notice boards and the same is communicated to the parents. Basing on the result top five students are selected for chairman's club. This is to encourage all the students for better further performance. Top three students from every class are selected for academic prizes. Students can apply for re-counting, re-evaluation and challenge re- evaluation as per the University norms.

2.5.4 Provide details on the formative and summative assessment approaches adapted to measure student achievement. Cite a few examples which have positively impacted the system?

Formative Assessment:

At the primary level the student is monitored and the feedback is taken regarding teaching learning process. Needed suggestions are given to teachers. Students are motivated to improve their learning process. Students are encouraged to prepare a topic and present every day. A student or group of students deals with the concept and they explain it in the peer teaching (PT) period. It improves not only their knowledge but also public speaking skills. When a concept is discussed, basing on the concept different group activities are planned to make the students come out from his/her inhibitions. Class room interactions, group discussions improve their analytical and logical abilities. Every teacher tests the performance of the students at regular intervals. The whole

NAAC - SELF STUDY REPORT

process helps them to actively participate in inter/intra college competition. Attendance is regularly monitored. If the student is absent the same will be communicated to parents through a message. If the students absent for 3 consecutive days, problem will be identified and necessary steps will be taken.

Summative Assessment:

The goal of summative assessment is to evaluate learning developed by a student towards the end of the semester. Summative assessments are of ten high stakes, which means that they have a high point value. Summative Assessment takes place twice in semester in the form of MID-I and MID-II Examinations. Finally, the university conducts a summative evaluation at the end of each semester through the following.

- End Semester Examinations
- Practical Examinations
- Project work
- Seminars
- Comprehensive Viva-Voce

2.5.5 Detail on the significant improvements made in ensuring rigor and transparency in the internal assessment during the last four years and weightages assigned for the overall development of students (weightage for behavioral aspects, independent learning, communication skills etc.)

After evaluation of the assignments/tests etc. the outcome results are discussed in the class, results are put on the notice board, students are individually counseled. While evaluating students for internal assessment, transparency is maintained by countersigning of the internal examination paper by the students after distribution and due weightage is given for their behavioral attributes, independent learning and communication skills. The students and parents are communicated about the progress through letter. Parents and local guardians are invited to the college to discuss the necessary action to be implemented for the progress of the student.

2.5.6 What is the graduate attributes specified by the college/affiliating university? How does the college ensure the attainment of these by the students?

A graduate when he completes his Engineering course is expected to possess

- Good Technical Knowledge
 - Working skills
 - Right attitude
- The knowledge is gained by the effective teaching in the class room and at the same time the breadth and depth are provided by institute through various activities like guest lectures, seminars, contents beyond syllabus etc.

The skills are of many types like :

- Technical skills - Learned through lab
- Interpersonal skills – Organizing tech-fests / seminars, student chapters etc.

Attitudes are normally moulded by the kind of working environment created by the institute. The institute creates an atmosphere of utmost discipline as far as the behavior of the students is concerned and the same time giving sufficient flexibility and encouragement regarding the co-curricular activities.

2.5.7 What are the mechanisms for redressal of grievances with reference to Evaluation both at the college and University level?

At College Level:

If the student has any grievance about the marks in the internal examinations, he / she may bring it to the notice of the respective teacher. If he / she is not satisfied, the problem may be represented to the Principal through the HOD concerned.

At University Level:

The grievances related to university examinations are redressed through different mechanisms. Revaluation/ recounting are the means by which the students' complaints are addressed. This is done by forwarding an application for revaluation/recounting through proper channels to the University.

2.6 Student Performance and Learning Outcomes

2.6.1 Does the college have clearly stated learning outcomes? If „yes “give details on how the students and staff are made aware of these?

Yes, NRIIT has clearly stated objectives which point out towards learning outcomes and has recognized that a full commitment to teaching and learning. It also recognized that this information improves the method of imparting education. These objectives are stated in the prospectus. The vision, mission and goals of the college also indicate

NAAC - SELF STUDY REPORT

the learning outcomes. Each course also has objectives clearly stated which are discussed with the students. The results of Outcome Assessment are used to evaluate the effectiveness of academic programs and activities, and student services, and the performance of individual faculty or staff. Faculty use the information collected to develop and improve academic programs.

2.6.2 Enumerate on how the institution monitors and communicates the progress and performance of students through the duration of the course/programme? Provide an analysis of the students results/achievements (Programme /course wise for last four years) and explain the differences if any and patterns of achievement across the programmes/courses offered.

Each student will know the marks obtained in the internal exams as the scripts are distributed in the class. The details of the marks are also communicated to the parents by sending them the details through post. Every month the attendance details will be displayed to the students and those who have lesser attendance is counseled by their counselors. These details are also communicated to the parents. The college has a system where the faculty posts the attendance everyday through software. If any student is absent to the class, a message is sent to the parent through SMS. Through the counseling system which is followed in the college, students will know about their progress timely and they are advised to take corrective measures.

Result Analysis Programme /course wise for last four years: UG

Result Analysis of 2013 Passed Out Batch

Year & Sem	Department	Students Appeared	Passed	Pass %	Year & Sem	Department	Students Appeared	Passed	Pass %	Year	Department	Pass %
1 Year	CE	59	16	27.11						1 Year	CE	27.11
	EE	60	33	55					EE		55	
	EC	120	52	43.33					EC		43.33	
	CS	57	12	21.05					CS		21.05	

NAAC - SELF STUDY REPORT

2_1	CE	64	29	45.31	2_2	CE	64	34	53.12	2 Year	CE	49.21
	EE E	66	30	45.45		EE E	67	45	67.14		EE E	56.29
	EC E	130	62	47.69		EC E	131	62	47.32		EC E	47.50
	CS E	62	29	46.77		CS E	63	27	42.85		CS E	44.81
3_1	CE	61	35	57.37	3_2	CE	61	39	63.93	3 Year	CE	60.65
	EE E	63	39	61.90		EE E	64	47	73.43		EE E	67.66
	EC E	128	78	60.93		EC E	128	80	62.5		EC E	61.71
	CS E	61	40	65.57		CS E	60	32	53.33		CS E	59.45
4_1	CE	61	44	72.13	4_2	CE	58	33	56.89	4 Year	CE	64.51
	EE E	64	50	78.12		EE E	64	47	73.43		EE E	75.77
	EC E	128	67	52.34		EC E	128	94	73.43		EC E	62.88
	CS E	60	26	43.33		CS E	60	55	91.66		CS E	67.49

Result Analysis of 2014 Passed Out Batch

Year & Sem	Department	Students Appear	Passed	Pass %	Year & Sem	Department	Students Appear	Passed	Pass%	Year	Department	Pass%
1_1	CE	60	35	58.33	1_2	CE	59	19	32.20		CE	45.25

NAAC - SELF STUDY REPORT

	EE E	60	40	66. 66		EE E	60	25	41. 66	1 Ye ar	EE E	54. 16
	EC E	11 8	88	74. 57		EC E	11 8	74	62. 71		EC E	68. 64
	CS E	11 8	61	51. 69		CS E	11 8	58	49. 15		CS E	50. 42
	IT	59	27	45. 76		IT	59	17	28. 81		IT	37. 28
2_1	CE	67	24	35. 82	2_2	CE	67	24	35. 82	2 Ye ar	CE	35. 82
	EE E	72	30	41. 66		EE E	71	41	57. 74		EE E	49. 7
	EC E	14 1	61	43. 26		EC E	14 0	68	48. 57		EC E	45. 91
	CS E	12 4	59	47. 58		CS E	12 4	66	53. 22		CS E	50. 4
IT	59	20	33. 89	IT	58	21	36. 20	IT	35. 04			
3_1	CE	65	42	64. 61	3_2	CE	64	30	46. 87	3 Ye ar	CE	55. 74
	EE E	71	42	59. 15		EE E	71	50	70. 42		EE E	64. 78
	EC E	14 0	89	63. 57		EC E	14 0	91	65		EC E	64. 28
	CS E	11 2	69	61. 60		CS E	11 2	73	65. 17		CS E	63. 38
IT	56	38	67. 85	IT	56	31	55. 35	IT	61. 6			
4_1	CE	62	38	61. 29	4_2	CE	64	27	42. 18		CE	51. 73
	EE E	71	54	76. 05		EE E	70	30	42. 85		EE E	59. 45

NAAC - SELF STUDY REPORT

	EC E	13 8	77	55. 79		EC E	13 8	10 4	75. 36	4 Ye ar	EC E	65. 57
	CS E	12 0	92	76. 66		CS E	11 9	10 6	89. 07		CS E	82. 86
	IT	55	44	80		IT	55	48	87. 27		IT	83. 63

Result Analysis of 2015 Passed Out Batch

Year & Sem	Department	Students Appeared	Passed	Pass %	Year & Sem	Department	Students Appeared	Passed	Pass%	Year	Department	Pass%
1_1	CE	117	44	36.66	1_2	CE	118	39	28.3	1 Ye ar	CE	32.45
	EE	60	35	47.4		EE	59	29	45.7		EE	46.55
	MECH	120	39	27.1		MECH	118	32	32.2		MECH	29.65
	EC	120	107	71.6		EC	121	97	66.3		EC	68.90
	CS	118	82	47		CS	117	69	46.6		CS	46.80
	IT	58	24	38.90		IT	57	24	23.7		IT	31.30
2_1	CE	140	63	30.5	2_2	CE	145	66	46.2	2	CE	38.35
	EE	71	41	47.80		EE	71	45	54.9		EE	51.35
	MECH	142	42	23.90		MECH	139	63	26.7		MECH	25.3
	EC	142	107	52.10		EC	143	95	48.9		EC	50.5

NAAC - SELF STUDY REPORT

	CE	129	82	47.80		CE	129	70	48.3	Ye ar	CE	48
	IT	60	14	22.8		IT	62	19	34.6		IT	28.7
3_1	CE	141	101	59	3_2	CE	141	79	52.2	3 Ye ar	CE	55.6
	EE	72	27	61.4		EE	72	50	56.5		EE	58.9
	ME	138	52	40.8		ME	136	71	46.4		ME	43.6
	EC	143	114	66.9		EC	142	107	60.4		EC	63.6
	CS	127	105	70.6		CS	126	91	52.9		CS	61.7
	IT	61	33	72.5		IT	61	30	45		IT	58.7
4_1	CE	134	94	75	4_2	CE	133	103	74.2	4 Ye ar	CE	74.6
	EE	72	42	76.1		EE	72	51	56.7		EE	66.4
	ME	126	81	69		ME	125	97	70.4		ME	69.7
	EC	142	100	64.7		EC	142	102	72.4		EC	68.5
	CS	125	87	66.9		CS	123	90	80		CS	73
	IT	60	24	66		IT	60	48	78.4		IT	72.2

Result Analysis of 2016 Passed Out Batch

NAAC - SELF STUDY REPORT

Year & Sem	Department	Students Ann	Students Passed	Pass %	Year & Sem	Department	Students Ann	Students Passed	Pass %	Year	Department	Pass %
1_1	CE	117	44	37.60	1_2	CE	118	39	33.05	1 Year	CE	35.32
	EE	60	35	58.33		EE	59	29	49.15		EE	53.74
	ME	120	39	32.5		ME	118	32	27.11		ME	29.80
	EC	120	107	89.16		EC	121	97	80.16		EC	84.66
	CS	118	82	69.49		CS	117	69	58.97		CS	64.23
	IT	58	24	41.37		IT	57	24	42.10		IT	41.73
2_1	CE	140	63	45	2_2	CE	145	66	45.51	2 Year	CE	45.25
	EE	71	41	57.74		EE	71	45	63.38		EE	60.56
	ME	142	42	29.57		ME	139	63	45.32		ME	37.44
	EC	142	107	75.35		EC	143	95	66.43		EC	70.89
	CS	129	82	63.56		CS	129	70	54.26		CS	58.91
	IT	60	14	23.33		IT	62	19	30.64		IT	26.98
3_1	CE	141	101	71.63	3_2	CE	141	79	56.02	3 Year	CE	63.82
	EE	72	27	37.5		EE	72	50	69.44		EE	53.47

NAAC - SELF STUDY REPORT

	ME CH	13 8	52	37. 68		ME CH	13 6	71	52. 20	4 Ye ar	ME CH	44. 94
	EC E	14 3	11 4	79. 72		EC E	14 2	10 7	75. 35		EC E	77. 53
	CS E	12 7	10 5	82. 67		CS E	12 6	91	72. 22		CS E	77. 44
	IT	61	33	54. 09		IT	61	30	49. 18		IT	51. 63
4_1	CE	13 4	94	70. 14	4_2	CE	13 3	10 3	77. 44	4 Ye ar	CE	73. 79
	EE E	72	42	58. 33		EE E	72	51	70. 83		EE E	64. 58
	ME CH	12 6	81	64. 28		ME CH	12 5	97	77. 6		ME CH	70. 94
	EC E	14 2	10 0	70. 42		EC E	14 2	10 2	71. 83		EC E	71. 12
	CS E	12 5	87	69. 6		CS E	12 3	90	73. 17		CS E	71. 38
	IT	60	24	40		IT	60	48	80		IT	60

Result Analysis Programme /course wise for last four years: PG

Result Analysis of 2013 Passed Out Batch

Year & Sem	Department	Students Announced	Passed	Pass %	Year & Sem	Department	Students Announced	Passed	Pass %	Year	Department	Pass %
1_1	M.Tech (CSE)	33	19	57. 57	1_2	M.Tech (CSE)	30	25	83. 33	1 Ye a		70. 45
	M.Tech (DECS)	17	9	52. 9		M.Tech (DECS)	17	13	76. 47			64. 70

NAAC - SELF STUDY REPORT

				4						r	
	M.Tech (PE)	18	15	83.33		M.Tech (PE)	17	12	70.58		76.95
	MCA	17	11	64.70		MCA	17	16	94.11		79.40
2_1	MCA	17	13	76.47	2_2	MCA	16	16	100	2 Year	88.23
3_1	MCA	16	10	62.5							62.5

Result Analysis of 2014 Passed Out Batch

Year & Sem	Department	No. of Students Appeared	Passed	Pass %	Sem	Department	Students		Pass%	Year	Department	Pass%
							Appeared	Passed				
1_1	M.Tech (CSE)	29	25	86.2	1	M.Tech (CSE)	27	23	85.18	1 Year	M.Tech (CSE)	85.69
	M.Tech (DECS)	12	11	91.66		M.Tech (DECS)	9	3	33.33		M.Tech (DECS)	62.49
	M.Tech (PE)	17	11	64.70	2	M.Tech (PE)	17	8	47.05		M.Tech (PE)	55.87
	M.Tech (THE R)	5	3	60	M.Tech (THE R)	4	3	75	M.Tech (THE R)		67.5	
	M.Tech (STR)	14	3	21.4	M.Tech (STR)	1	1	7.1	M.Tech (STR)		14.	

NAAC - SELF STUDY REPORT

	U)			42		U)	4		4		U)	28
	MCA	5	2	40		MCA	5	5	100		MCA	70
2_1	MCA	5	3	60	2 - 2	MCA	5	3	60	2 Y e a r	MCA	60

2.6.3 How are the teaching, learning and assessment strategies of the institution structured to facilitate the achievement of the intended learning outcomes?

Teaching strategies:

- To follow the academic calendar given by the university.
- To prepare the course file and plan the lecture and tutorial hours as per schedule given by concerned department.

Learning strategies:

- To conduct the assignments in theory subjects and arrange the seminars by the students
- To organize paper presentations and conduct group discussions.
- To arrange industrial tours to give practical knowledge
- To assign mini projects

Assessment strategies:

- Internal and external examinations in both theory and practical subjects

2.6.4 What are the measures/initiatives taken up by the institution to enhance the social and economic relevance (student placements, entrepreneurship, innovation and research aptitude developed among students etc.) of the courses offered?

The initiatives taken up by the institution to enhance the social and economic relevance of the courses offered are

- Exposing the students to current market requirements by the interaction with HRs of reputed organizations.
- Organizing workshops and seminars to acquire the latest technologies.

- Encouraging innovation in research aptitude in students to undertake, participate in Research Projects, National Seminars & Conferences.
- Organizing intensive training programs in association with various companies like Infosys Campus Connect, Microsoft etc.,

2.6.5 How does the institution collect and analyze data on student performance and learning outcomes and use it for planning and overcoming barriers of learning?

The student performance is measured by various indicators.

The students who have cleared their degree in 4 years and the pass percentage in each year in comparison with the other affiliated colleges is collected by the college through the data sent by the university and also through university web site. This data is used to identify the difficult subjects and extra classes are conducted in these subjects for the next batches to improve the pass percentage. The data of students who have joined higher studies and working presently is maintained by the individual departments. The data is also collected through Alumni so as to identify the needs of the industry from fresh engineers.

Another indicator is the campus placements, the details of eligible candidates and conversion ratio data is maintained by the Training and placement cell. Any barriers in this regard can be overcome by giving special training. For example a specific company may be focusing more on aptitude and communication skills of the students. Then intensive training will be provided to the students in the required modules to cater to the needs of the company.

The paper presentations made by the students in various seminars and prizes won by them is another performance indicator.

2.6.6 How does the institution monitor and ensure the achievement of learning outcomes?

The achievement of learning outcomes is monitored by institution in the following way:

- Class monitoring committees.
- System of continuous evaluation in both theory and lab subjects.
- Exit feedback, alumni feedback.
- Analysis of performance in theory and lab exams.
- Achievements of students in extracurricular activities.

2.6.7 Does the institution and individual teachers use assessment/ evaluation outcomes as an indicator for evaluating student performance, achievement of learning objectives and planning? If, yes “provide details on the process and cite a few examples.

Yes, the institution and individual teachers use assessment and evaluation as an indicator for evaluating students' performance etc. The teachers assess and identify the areas in which students are found weak. The teachers can arrange the Bridge Courses for the students plan and change their teaching methodology. The assessment and evaluation enables the teachers to assist the students to elect their optional and special subjects so that they can plan their careers of choice.

For example for a particular subject like Electrical Machines in Electrical Engg. Stream, the objective is to prepare the student to succeed in competitive exams held by companies like Vijai Electricals, or Siemens or Lanco power who visit the college for campus recruitment. The performance of the students in this selection process is an indicator of whether the objective is achieved or not. Good number of students from Electrical engineering were selected by Petrofac, which indicates that the objective is met.

CRITERION III:

RESEARCH, CONSULTANCY AND EXTENSION
TEACHING-LEARNING AND EVALUATION

3.1 Promotion of Research

3.1.1 Does the institution have recognized research center/s of the affiliating University or any other agency/organization?

As on date the Institution has not officially been recognized as a Research Center of JNTUK. However, some of the Professors working in this institution have been supervising Research Scholars allotted by JNTUK, for their Research Degrees making use of the facilities in the Institution.

3.1.2 Does the Institution have a research committee to monitor and address the issues of research? If so, what is its composition? Mention a few recommendations made by the committee for implementation and their impact.

Since the Institution is extending Research Facilities as well as Consultancy Services, each Branch separately and the Institution as whole have Research Committees. The following table shows the Members of the Research Committee from each Department. They meet periodically to review and plan the works relating to research and consultancy

S. No	Name of the Department	Name of the Faculty	Designation
1.	ECE	R.Sunitha	Professor
		S.A.Rehman	Assoc Professor
		S.V.Rama Rao	Assoc Professor
		M.S.S.S.Srinivas	Assoc Professor
		V.Srinivasa Rao	Assoc Professor
2.	Civil	Ch. Ch.Srinivas	Assoc Professor
		Ch.Veeratham Kumar	Asst. Professor
		N.Madhava	Asst. Professor
3.	CSE ,IT&MCA	Dr.K.V.SambasivaRao	DEAN
		Dr.V.Suryanarayana	Professor
		Mr.V.Sudhakar Rao	Assoc Prof
		Mr. B.MouleswaRao	Assoc Prof
		Mr.B.B.K.Prasad	Assoc Prof
		Mr.Ch.Murali Krishna	Assoc Prof

NAAC - SELF STUDY REPORT

4.	EEE	Dr. N.Sambasiva Rao	Professor & HOD
		Mr. R. Raghunadha sastry	Assoc Professor
		Mr. K. Venkata kishore	Assoc Professor
		Mr. I. Prasanna kumar	Assistant Professor
5.	MECH	Dr.C.Naga Bhaskar	Professor
		R.Vijay Krishna	Associate Professor
		T.Rajendra Prasad	Associate Professor
		K.Vidya	Associate Professor
		V.Sri Rama Murthy	Associate Professor
6.	S & H	Dr.C.V.Nageswara rao	Professor
		Dr.K.Krishna rao	Associate Professor
		Dr.K.Veera Badra Reddy	Associate Professor

Objectives of Institution's Research and Consultancy Cell (IRCC)

The main objectives of the Institution's Research and Consultancy Cell are

- To inculcate and promote research activity among the faculty
- To facilitate the faculty to apply for Research projects from various funding agencies
- To help and encourage the faculty to publish their Research works
- To help the faculty in getting required facilities from the Management of the Institution

Recommendation of the Committee to the Institution

The Committees of various Departments request the Management to address the issues of research. The following are the recommendations made by the committee to the management:

- To provide Budget for new Research facilities
- To request the Management to obtain UGC 12(B) as the Institutions has already having UGC 2(f) as it will facilitate to apply for Major and Minor Research Projects
- To obtain qualitative and quantitative improvement in research and publication
- To improve consultancy activities
- To encourage faculty members for higher studies
- To organize Faculty meeting in each Branch at least once in a month to encourage the faculty to take up research and to review their progress
- To motivate teachers for attending FDP/Seminar/Symposia/Workshop and conferences
- To try for collaborative work and development at national and international levels
- To enhance interaction with premier institutions

Implementation of the Recommendations:

- Heads of the Departments to include the research requirements in the budget
- Conference Proceedings and Publication in SCI Journals are given weightage in Faculty performance Appraisal
- Expenses related to uploading of proposals in various funding agencies are paid by Management
- The Management also started the process to obtain 12 (B) of UGC
- The Principal has appointed Sri B.V.S.Prasad as Coordinator for Entrepreneurship cell and also entrusted him for inviting renowned Rural Engineering Researchers and industrial giants.
- Many faculty members have registered themselves for a research degree in various institutions and Universities.

3.1.3 What are the measures taken by the institution to facilitate smooth progress and implementation of research schemes/ projects?

- Autonomy to the principal investigator
- Timely availability or release of resources
- Adequate infrastructure and human resources
- Time-off, reduced teaching load, special leave etc. to teachers
- Support in terms of technology and information needs
- Facilitate timely auditing and submission of utilization certificate to the funding authorities

The Principal Investigator is solely responsible and independent in making decisions regarding planning of research project or research consultation. Except for the part that legitimately belongs to Institution, the PI is absolutely free to plan the allotment of funds received. However, the Institution will always release the required funds from those received from the financing institution.

Following are some of the measures taken by the Institution

- It is mandatory that PI should open a separate Bank account for each of the projects he is undertaking.
- The Institution / Principal, in whose name the funds are generally released by the funding institution, releases the required funds to PI on his request. However, it is mandatory for the PI to provide the bifurcation of the requested funds among different Major Heads of expenditure.
- The Institution helps the PI to obtain the permissions required to import

NAAC - SELF STUDY REPORT

the required equipment, in case it has to be imported from a foreign nation.

- The work load is adjusted to the PI on the request of PI to allow him to carry out the research work within the sanctioned time by the funding agency.
- The PI is granted Special Casual Leave, in addition to the existing leave, up to a period of 15 days in a year to visit other institutions / Libraries / Experts in the field / attending Seminars / Conferences
- The Institutions grants financially aid, to a maximum of Rs. 50,000/- to the PI, in case he is presenting any paper in the Research area of his project in any foreign country.

3.1.4 What are the efforts made by the institution in developing scientific temper and research culture and aptitude among students?

The Institute considers students career as priority. Hence it encourages the students towards gaining knowledge based education and thus endeavors to develop scientific temper and research culture. The following are the efforts made by the Institution:

- Regular intramural Tech Fests are organized by the Institution separately for each branch and all the branches together.
- Organizes Tech Fests for Engineering Colleges situated in the State of Andhra Pradesh
- The institution has made it compulsory for all the Branches to organize events at least one workshop / paper presentation/ Seminars inviting other colleges for participating in these events.
- Prizes for the best paper presentations in the Institution are sponsored by the Management of the Institution.
- On the eve of College Day, the Management appreciates the students Who have participated in the Paper Presentations / Tech Festivals conducted by other institutions and secured prizes

Library and Digital Library are equipped with latest Technical Journals for updating the day to day improvements in various branches of engineering.

Publications by Faculty and Students :

NAAC - SELF STUDY REPORT

S. No	BRANCH	Event	2012-13	2013-14	2014-15	2015-16
1	MECH H	No of Internal Symposia Conducted	-	1	1	-
2		No of Papers presented in Internal symposia	-	56	62	-
3		No of students participated in internal symposia	-	112	124	-
4		No of workshops conducted	-	2	3	2
5		No of project expos conducted	-	3	4	4
6		No of projects exhibited	-	4	3	4
7		No of students participated in project expos	-	5	3	3
8		No of projects submitted to funding agencies	-	-	-	1
10		Number of publications by the faculty in National/International conferences	-	-	2	-
11		Number of publications by the faculty in National/International Journals	-	-	-	74
1		EEE	No of Internal Symposia Conducted	1	1	-
2	No of Papers presented in Internal symposia		10	15	-	-
3	No of students participated in internal symposia		15	18	-	-
4	No of workshops		1	1	1	2

NAAC - SELF STUDY REPORT

		conducted				
5		No of project expos conducted	1	1	1	1
6		No of projects exhibited	1	1	1	1
7		No of students participated in project expos	4	5	6	6
8		No of projects submitted to funding agencies	-	-	-	1
9		Funds received from different agencies	-	-	-	-
10		Number of publications by the faculty in National/International conference	4	2	5	2
11		Number of publications by the faculty in National/International Journals	3	1	4	21
12		Number of publications by the students in National/International conferences	-	-	2	2
13		Number of publications by the students in National/International journals	-	-	1	3
1	CIVIL	No of Internal Symposia Conducted	1	1	1	1
2		No of Papers presented in Internal symposia	20	25	35	40
3		No of students participated in internal symposia	100	125	200	250
5		No of project expos	1	1	1	

NAAC - SELF STUDY REPORT

		conducted				
6		No of projects exhibited	8	15	15	25
7		No of students participated in project expos	45	75	60	120
11		Number of publications by the faculty in National/International Journals	2	3	2	1
12		Number of publications by the students in National/International conferences	3	6	10	12
1	CSE, MC A & IT	No of Internal Symposia Conducted	-	-	1	1
2		No of Papers presented in Internal symposia	-	-	25	15
3		No of students participated in internal symposia	180	170	-	240
4		No of workshops conducted	-	-	-	2
8		No of projects submitted to funding agencies	-	-	3	3
9		Funds received from different agencies	-	-	1	1
10		Number of publications by the faculty in National/International conferences			12	12
11		Number of publications by the faculty in National/International Journals	2	14	6	6
13		Number of publications by the students in	-	18	36	33

NAAC - SELF STUDY REPORT

		National/International journals				
1	ECE Dept	No of Internal Symposia Conducted	-	1	1	1
2		No of Papers presented in Internal symposia	-	15	10	10
3		No of students participated in internal symposia	-	120	-	180
4		No of workshops conducted	1	2		5
5		No of project expos conducted	1	1	1	2
6		No of projects exhibited	5	7	6	34
7		No of students participated in project expos	6	10	15	15
8		No of projects submitted to funding agencies	-	-	-	4
10		Number of publications by the faculty in National/International conferences	1		3	3
11		Number of publications by the faculty in National/International Journals	7	13	5	2
12		Number of publications by the students in National/International conferences	1	-	-	1
13		Number of publications by the students in National/International journals	8	8	-	-

NAAC - SELF STUDY REPORT

3.1.5 Give details of the faculty involvement in active research (Guiding student research, leading Research Projects, engaged in individual/collaborative research activity, etc.

Faculty is actively involved in guiding student projects both at UG and PG level. The practice of publishing papers by students and faculty members of various departments in national & international conferences/ seminars and journals is a continuous process.

Research Projects

Several faculty members from all the departments have submitted research proposals as principal investigators to national funding agencies for grants which are awaited.

Engaged in individual/collaborative research activity

Faculty members are actively involved in pursuing research work and publishing their findings in journals. All the professors are engaged in active research. The list of senior faculty members who guide PhD scholars is given below.

S.No	Name of the Faculty	Designation	No of Ph.D Scholars Guided
1	Dr.C.Naga Bhaskar	Professor	2
2	Dr.K.V.Sambasiva Rao	Professor	4

3.1.6 Give details of workshops/ training programmes/ sensitization programmes conducted/organized by the institution with focus on capacity building in terms of research and imbibing research culture among the staff and students.

The institution organizes periodical faculty development programs, department wise workshops, guest lectures, industrial visits, seminars, conferences and technical projects with focus on competence building and to inculcate research ambience both in students and staff.

NAAC - SELF STUDY REPORT

Following programmes are conducted / organized by the institution.

S.No	Department	Year	Seminar/Conference /Workshop	Source of Funding	Resource Person
1	ECE	2012	One Day Workshop On VLSI & Embedded Systems	Management /Self Financed	Dr.M.B.SRINIVAS, Professor & Dean, Birla Institute of Technology,, Hyderabad campus
2		2012	Robotryst 2013	Management /Self Financed	Mr. Uma Shankar Yadav and Mr.Nitish Bhardwaj
3		2013	A 2-Day Workshop on VHDL	Management /Self Financed	MCN Technology
4		2013	Inaugural of IETE Student Forum	Management /Self Financed	Dr.M.Kama Raju, Professor & HOD ECE, Gudlalleru Engineering College,
5		2013	Guest Lecture on “Advances in VLSI Design & Challenges”	Management / Self Financed	Dr.M.Kama Raju, Professor & HOD ECE, Gudlalleru Engineering College,
6		2013	Faculty Interaction Programme	Management / Self Financed	Dr.M.Kama Raju, Professor & HOD ECE, Gudlalleru Engineering College,
7		2014	Guest Lecture on Trends in VLSI Design and DSP-VLSI Architectures	Management / Self Financed	Dr.N.S.Murthy, Professor, ECE Department, NIT Warangal
8		2015	International Workshop On	Management /	Mr.Anurag Thivari

NAAC - SELF STUDY REPORT

			Humanoid Duties	Self Financed	
9		2015	Two Day Workshop On Low Power VLSI using Tanner EDA	Management / Self Financed	Mr.S.Manoj & T.Sundar
10		2016	Three Day Workshop On "PCB Design"	Management / Self Financed	Mr.U.Kumar
11		2016	Three Day Workshop On "Embedded Systems"	Management / Self Financed	Mr.Govind Rao,Director , Microlink
12		2012	Cloud Computing	Management	Mr.K.Veera Babu
13		2012	Career Development	Management	Mr.P.Prasad Babu
14		2012	Advanced Topics on Object Oriented Programming	Management	Mr. B.Pratap
15		2013	Android Applications	Management	Mr. Q.Glerett
16		2013	NPTL	Management	Mr.Md.Naheed
17		2014	Big Data	Management	Dr.K.V.Sambasiva Rao
18		2014	Latest Technologies in IT Industries	Management	Dr.K.V.Sambasiva Rao
19		2016	Seminar on Ethical Hacking.	Management	Mr.Ch.Sai Sateesh
20		2016	Seminar on SAP.	Management	Mr.M.Ram Mohan
21		2016	Seminar on Malware Technology.	Management	Mr.Ch.Sai Sateesh.
22		2016	3 days Workshop on Hadoop and	Management	Mr.Veer Anjaneya Nagaraju,Big

NAAC - SELF STUDY REPORT

			Big Data analytics.		data minds
23		2016	3 days Workshop on IOT.	Management	Mr.Madhu Parvathaneni Entrepreneur / IoT Developer ORL Industries
24	EEE	2013	Seminar on Advanced Power Systems	NRIIT	B.P Singh
25		2014	Seminar on Renewable Energy Sources	NRIIT	Sri. Kamaraju
26		2014	Seminar on Advanced Power Electronic Drives	NRIIT	Smt.Surya Kalavathi
27		2015	Work shop on MATLAB/SI MULINK	NRIIT	V. Naresh
28		2016	Work Shop on Supervisory Control	NRIIT	G.Vinod Kumar
29	MECH	2015	Career Prospectus through GATE	NRIIT	Mrs.Ch.Navata
30		2016	Career Opportunities for Mechanical Engineers in Germany	NRIIT	Mr.Jamindar Buddiga

3.1.7 Provide details of prioritized research areas and the expertise available with the institution.

The institution is strengthened with qualified and well experienced faculty. Based on research specializations, research groups or individuals take up projects and publish papers in reputed journals. Following are the details for the research areas and expertise of the faculty members of various departments.

NAAC - SELF STUDY REPORT

S.No	Name of the Department	Area of Specialization/Research	Expertise available
1	ECE	Microwave Engineering	R. Sunitha
			Abdul Rahiman.Sk
2		Instrumentation Control Systems	S.V. Rama Rao
3		Communications	V. Srinivasa Rao
			A.Satti Babu
			B.Y.Gopinath
4		Communications & Radar Systems	M.S.S.S.Srinivas
5		Embedded Systems	M. Suneel
			Y. Arpitha
			K. Prathyusha
			G. Prashanthi
6		DECS	B. Swathi
			G. Srinivas Babu
			Ch. Swathi
	D. Ravi Shankar		
	M. Mahesh		
	A. Brahmani		
	T. Nistchala		
	Y. Sravanthi		
7	VLSI System Design	P. Venu Gopal	
		Sk. Ashraf Ali	
		M.P. Kishore	
		R. Upendar Rao	
		Ch. Swapna	
		Ch. Uday Bhaskar	
		N. Srikanth	
		P. Amrutha Valli	
		J. Sowjanya	
8		Systems & Signal Processing	P.B. Sudha Rani
		B. Sravani	
9	VISI & Embedded Systems	P.R. Bhavana	
		V. Bhavani	
		T. Sumalatha	
10	Telemetric	G. Sai Keerthana	
11	ECE	K.Thanuja	
12	CSE	Decision Support Systems	Dr. K. V. Sambasiva Rao
13		Software Systems	Dr. Y. Sushma
14		Software Engineering	Dr. V. Suryanarayana

NAAC - SELF STUDY REPORT

			Mr. A. Hari Krishna	
15	Big Data		Mr. B. B. K. Prasad	
			Mrs. M. Aruna Safali	
			Mrs. S. Sivaleela	
			Ms. Md. Arsha Sultana	
16	Cloud Computing		Mr. K. Vamsi Krishna	
			Mr. P. Raghuv eer	
17	Software Reliability		Mr. Ch. Surya Kiran	
18	Data Mining		Mrs. D. Suneetha	
			Mrs. P. Venkata Anusha	
			Mr. R S V V Prasada Rao	
			Mr. M V P Uma	
			Maheswara Rao	
			Mrs. T. Saadiya	
			Ms. Y. Kalyani	
			Mrs. B Naga Chandrika	
19	Network Security		Mr. G. Karunakar	
			Mr. B. Dasaradha Ram	
20	Computer Networks & Big Data		Mrs. J. Praveena	
			Mr. E. Karunakar	
			Mr. K. Mahendranath	
21	Computer Networks		Ms. K. Radha	
			Mrs. M. Seshu Bhavani	
			Ms. P. Sai Geetha	
22	Computer Science & Engg		Mr. D. Anand Avinash	
			Mrs. T. Radhika	
23	Mobile Computing		Mr. P. Narendra Babu	
24	Network security		Mr. V.Sudhakara Rao	
			Mrs. M.B.Anusha	
25	Data mining		Mr. Ch.V.Murali Krishna	
26	Operating system		Mrs. M.Praveena	
27	Database Management System		Mrs. S. Nahida	
			Mr.Y.N.S.Satyanarayana	
28	Computer Organization		Mrs.CH. SanthaKumari	
29	Computer Networks		Mrs.P.Naga Lakshmi	
30	EEE	Electrical Power Systems	Dr.N.Sambasiva Rao	
31		Power Systems		R.Raghunadha Sastry
				S. Bhavani
				I. Prasanna Kumar
			MA. Salma	

NAAC - SELF STUDY REPORT

			M.Tejaswini	
32		Power Electronics	K. Venkata Kishore B. Edukondalu Y.Lalitha Kameshwari Ch. Sabitha	
33		Power & Industrial Drives	M.Padma	
34		Power Electronics & Drives	S.Ramyaka N.M.Subhani P.Sudha rani P.Vidhya	
35		Control systems	V.Lalitha	
36	MTECH	Thermal Engineering	Dr. C. Naga Bhaskar Mr. M. Mahesh Babu Mr. Sk. Abdul Azeez Mr. Ch. Naveen Kumar Ms. A. Madhuri Mr. Venkateswara Rao Sarnal Mr. N.Shanmukh Veerendra Mr.K.Naga Raju	
37		CAD/CAM	Mr. Raffi Mohammed Mr. R.Vijay Krishna Mr. K. Mani Kumar Mr. Md. Nazeer	
38		IEM	Mrs. K.Vidya	
39		Production Engg	Mr. G.S.R.N Malleswara Rao Mr. T. Rajendra Prasad	
40		Machine Design	Mr. V. Srirama Murthy Mr. V.Mohan Manoj Gupta Mr. K. Venkateswara Reddy Mr. Y. Venkatesh Mr. N. Syam Babu	
41		Mechatronic	Mr. O N V P Bhagavan	
42		Material Technology	Mrs. P. Bharathi	
43		Industrial Metallurgy	Mrs. K. Anusha Raj	
44		Marine Engg.	Mr. N. Raja Sekhar	
45		CIVIL	Structural Engineering	CH.CH.SRINIVAS Ch.Veerotham kumar

NAAC - SELF STUDY REPORT

			N.Madhava
			M. Krishna Kumar
		Environment Engineering	Md. BiBi Jarina
46	S & H	Economics	Dr.Mvn Sarma
47			Dr.D.Kailasa Rao
48		Chemistry	Dr. C.V.N. Rao
			M.S.Swarnapushpa
			G.Purnachandrarao
49		Physics	Dr.K.V.B.Reddy
			Dr.L.Vijayalakshmi
			Ch.Chandrakala
			G.Krishnapriya
			Y.Suryanarayana
50		Mathematics English	M.Babu Prasad
			Dr.K.Krishna Rao
			D.Srinivasulu
			K.V.Pavan Kumar
			Ch.S.Subrahmanyam
			D.Vijayakumar
			P.Rajasekhar
	A.Sombabu		
	P.Vijayakumar		
	Y.Madhavi		
	R.Sridevi		
	A.Neerajapadma		
	D.Radhika		
	T.Sreelatha		
	G.Sridevi		
I.Datta Sravani			
M Anuradha			
T.Vijaya Sri			
B.Satish			
B.V.S.Prasad			
G.Edward Raju			
51		Environmental Sciences	G.Alekhya
52		Accounts	D.Naga Rajesh
53	MCA	Data Mining	B.Mouleswararao
			K.Chandramouli
		Soft ware Enginnering	K.Udayasree
		Computer Networks	L.Kavitha
		Software Testing	G.Sireesha

NAAC - SELF STUDY REPORT

3.1.8 Enumerate the efforts of the institution in attracting researchers of eminence to visit the campus and interact with teachers and students?

The college organizes National Conferences, Symposiums, Workshops and Seminars as the important tools of collaboration where experts from academia and industries are invited to deliver special lectures and interact with teachers and students.

List of eminent personalities and researchers who visited the institution

- Various short-term training programs for faculty are organized, for which experts are invited to deliver special lectures and make deliberations on important issues, teaching methodologies, journal publications and research works
- The faculty members are encouraged to collaborate with elite professors of reputed institutions for their research activities
- External experts are regularly invited by the college to enlighten the research scholars and students on advanced and emerging trends in research areas.

S.NO	Department	Name of the Resource Person	Beneficiaries	Date of Visit
1	ECE	Dr.Madhumati HOD,ECE Dhanekula Institute of Engineering & Technology	IV ECE Students	28-02-2013
2	ECE	Dr.M.KamaRaju HOD,ECE, IETE Chairman, Vijayawada	Inaugural of IETE, Guest Lecture II & III ECE Students	29-06-2013
3	ECE	Mohammed Naheed Lead Campus Relations Officer Classle Pvt Ltd,Chennai	IV & III ECE Students	29-07-2013
4	ECE	R.Ravi Kumar Program Manager Tech-Mahindra Pvt Ltd,Hyd	Recent Trends in IT Industry	26-12-2013
5	ECE	Dr.N.S.Murthy HOD,ECE National Institute of Technology Warangal	Guest Lecture on “ Advancements in Electronics Engineering”	05-07-2014

NAAC - SELF STUDY REPORT

6	ECE	Dr. T. V. Rao HOD, ECE IETE Chairman, Ele. Sir C.R.Reddy College of engineering, Eluru	Beneficiaries of IETE membership	24-09-2016
7	CSE,IT & MCA	Mr.Veer Anjaneya Nagaraju,Big data minds	3 days Work shop on Hadoop and Big data analytics	12-09-2016 to 14-9-2016
8	CSE,IT & MCA	Mr.Madhu Parvathaneni Entrepreneur / IoT Develop ORL Industries	3 days Work shop on IOT.	01-08-2016 03-08-2016
9	CSE,IT & MCA	Mr.M.Ram Mohan	Seminar on SAP	02-04-16
10	CSE,IT & MCA	Mr.Ch.Sai Sateesh.	Seminar on Malware Technology	04-032016to 05-03-2016
11	CSE,IT & MCA	Mr.Ch.Sai Sateesh	Ethical Hacking	05-10-2015
12	CSE,IT & MCA	Mr.K.V.SambasivaRao	Big Data	19-04-2014
13	CSE,IT & MCA	Mr. K.V.SambasivaRao	Latest Technologies in IT Industries	21-04-2014
14	CSE,IT & MCA	Mr. Q.Glerett	Android Applications	19-07-2013 to 20-07-2013
15	CSE,IT & MCA	Mr.Md.Naheed	NPTL	29-7-2013
16	CSE,IT & MCA	Mr.P.Prasad Babu	Career Development	10-07-2012
17	CSE,IT & MCA	Mr. B.Pratap	Advanced Topics on Object Oriented Programming	27- 09-2012
18	CSE,IT & MCA	Mr.K.Veera Babu	Cloud Computing	31- 01-2012
19	MECH	Dr. K. Sivaji Babu Professor, PVPSIT	MECH	07-03-2013
20	MECH	Mr. Suhas Rane Director, Siemens India	MECH	23-08-2014

NAAC - SELF STUDY REPORT

21	MECH	Dr. P. Udaya Bhaskar Professor, JNTU College of Engineering Kakinada	MECH	06-09-2015
22	MECH	Prof. S. S. Rao Professor, University of Miami, Coral Gables, USA	MECH	04-01-2016
23	CIVIL	Prof. S. S. Rao Professor, University of Miami, Coral Gables, USA	CIVIL	04-01-2016
24	CIVIL	Prof. B.P. Rao Dean, Consultancy, VRSEC	CIVIL	15-09-2015
25	CIVIL	K.V.M RAO. Managing director, Prefabricated structures, vizag	CIVIL	15-09-2015

3.1.9 What percentage of the faculty has utilized Sabbatical Leave for research activities? How has the provision contributed to improve the quality of research and imbibe research culture on the campus?

- The college is sanctioning sabbatical leave from academic year 2016 for the faculty to attend seminar/workshops/conferences and to pursue their Ph.D through QIP.
- Mr. P. Surendra Varma, Assistant Professor of CSE Department has been granted sabbatical leave to pursue his Ph.D., at IISc, Bangalore, during May 2014.

3.1.10 Provide details of the initiatives taken up by the institution in creating awareness/advocating/transfer of relative findings of research of the institution and elsewhere to students and community (lab to land)

- Seminars/conferences, workshops and projects are conducted once in a year to create research awareness among faculty and students. The college encourages faculty to attend seminars/conferences, workshops in and outside the state by providing special casual leaves. Also the registration fee is paid by the management for their presentation of research papers at national and international conferences.
- Students are encouraged to do projects from their second year itself. They are also funded by the management based on the selection committee from the Department. It is compulsory for a student to give seminars in their third year as per JNTUK

NAAC - SELF STUDY REPORT

curriculum and on project work during their final year second semester reviews.

- During technical fests and engineer's day celebrations the nearby school children are invited, enlightened them on the latest emerging technologies and create interest towards technology during their budding age itself.

The following are some interesting projects carried by our students which demonstrate their professional zeal in developing the technological work for the land.

3.2 Resource Mobilization for Research

3.2.1 What percentage of the total budget is earmarked for research?

Give details of major heads of expenditure, financial allocation and actual utilization.

For the enhancement of research, Institution has provided very good library facility with good resources such as E-journals, Print journals, Magazines and periodicals. Fully equipped laboratories have been established. About 10-15% of the annual budget i.e., approximately Rs. 3 lakhs is spent on promoting and practicing research related activities.

Some activities are listed below:

- Building and developing research infrastructure
- Collecting and procuring of research literature
- Subscribing to e-journals
- Purchase of equipment in laboratories
- Purchase of books in library
- Printing and stationary

3.2.2 Is there a provision in the institution to provide seed money to the faculty for research? If so, specify the amount disbursed and the percentage of the faculty that has availed the facility in the last four years?

“YES”. The Institution provides seed money to the extent of about 10% of its unassigned resources to promote research activity in the Institution towards purchase of equipments, contingency, travel grant, publication of papers and participation in Workshops/Seminars/Symposia etc. About 40% of the faculty on a priority basis shall be given the opportunity to utilize this facility.

3.2.3 What are the financial provisions made available to support student research projects by students?

For the student research projects, funds under research and development (provided for the college budget) will be allocated if any innovative project/model is prepared by the students under student centric activities. The departmental project committees after assessing the project proposals recommend for financial assistance to suitable project proposals. A reward is offered to the students for their international publications. TA and DA are paid to the students for their presentations of papers at prestigious institutes like IITs and NITs. Cash awards are also given for publishing of research articles in National and International journals.

3.2.4 How does the various departments/units/staff of the institute interact in undertaking inter-disciplinary research? Cite examples of successful endeavors and challenges faced in organizing interdisciplinary research.

The college R&D committee encourages faculty to undertake inter-disciplinary research. Faculty published inter-disciplinary research papers in reputable journals. A few of our faculty have applied for projects to SERB, DST etc.

3.2.5 How does the Institution ensure optimal use of various equipment and research facilities of the institution by its staff and students?

- Library facilities and its environment encourage/motivate the staff and the students to take a forward step to pursue research in their field of interest. The institute has a well-stocked library which includes the latest volumes of all relevant subjects and disciplines and the institute is always eager to purchase the new edition of books every year. The faculty and students can avail of various e-journals through digital library.
- The college and its library open a few extra hours beyond the working hours. Almost all faculty stay once or twice in a week as per their convenience, during these extra hours for research work or to help the students in their projects and research activities. Transport is provided for those who stay beyond college hours and all facilities required will be available during this period.
- All the equipment existing in the labs are periodically calibrated and made available both to faculty members and students. Similarly all available equipments are well accessible to students

NAAC - SELF STUDY REPORT

for their practical purpose. Each department has relevant infrastructure and instruments for basic research work. Internet connectivity is provided in all the departments to help them review their academic as well as research programs. The campus is connected with full fledged LAN facility with workstations in every department.

3.2.6 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facility? If 'yes' give details.

“No”. The Institute has not received any special grants or finances from industry or any other beneficiary agency for developing research facility. However, The Institute has signed MoUs with some industries and other agencies for promoting, training, research and extension activities in technical education. Also research proposals are submitted to various funding agencies in order to get funds to carry out research work.

S. No	Name of the Department	Name of faculty	Funding Agency	Project Title
1	ECE	S.V.RAMARAO	Applied to SERB	"DEVELOPING A HYBRID GRAVITATIONAL SEARCH ALGORITHM AND GENETIC ALGORITHM (HYBRID GSAGA) FOR ENHANCING THE PERFORMANCE OF SMART ANTENNA SYSTEMS".
2	CSE,IT & MCA	Dr.K.V.Sambasiva Rao	DST	“A TWO DAY NATIONAL CONFERENCE ON NEXT GENERATION COMPUTING”
3	MECH	Mr. Sampati Suresh J	DST	FABRICATION, MECHANICAL CHARACTERIZATION AND TRIBOLOGICAL (EROSIVE WEAR)
4	EEE	Dr.N.Sambasiva Rao	DST	“ANALYSIS OF POWER SYSTEM ISSUES USING FACTS DEVICES”

NAAC - SELF STUDY REPORT

3.2.7 Enumerate the support provided to the faculty in securing research funds from various funding agencies, industry and other organizations. Provide details of ongoing and completed projects and grants received during the last four years.

With great thrust on creating and sustaining research culture among the stakeholders in the campus, the College provides all the possible support, systems and encouragement. The institute has several senior faculty members with vast research experience. They guide other faculty members in preparing the research proposals. Subsequently, the research proposals are sent to various funding agencies for approvals. The Department of CSE has received fund for conducting International Conference.

Sl.No	Name Of Faculty	Project Description	Funding Agency	Status of grant received
1	Dr.K.V.Sambasiva Rao	To conduct a two day national conference on next generation computing	DST	Amount Sanctioned (Rs.1,00,000)

3.3 Research Facilities

3.3.1 What are the research facilities available to the students and research scholars within the campus?

Computer with internet facility is provided to the faculty who are doing research. The college subscribes to both national and international journals in various fields. All departmental laboratories, library, internet and other infrastructural facilities are available for each student. On demand, each student will be given a separate computer with adequate software and hardware facilities to carry out his/her project work on the campus. Qualified faculty is available to guide the students on their project work. Labs and library are kept open beyond the scheduled time to complete their projects. Internet connectivity of 100 MBPS speed is available with Wi-Fi support

3.3.2 What are the institutional strategies for planning, upgrading and creating infrastructural facilities to meet the needs of researchers especially in the new and emerging areas of research?

- Institute makes separate budget allocation every year to enhance the research facilities to procure advanced equipment in laboratories and to enhance the R & D activities in the emerging areas.
- Encouragement is given to faculty for applying to funding agencies like AICTE/UGC/DST/CSIR etc., to establish research facilities.
- The Institution encourages faculty and students to attend research programs, seminars, workshops and conferences conducted in the institutions as well as in the other organization to establish interest in the research. Institute provides registration fee conveyance, special casual leave for each program.
- Library is enriched with wide range of books and journals. Online journals are also accessible to researchers.
- High band width internet facility along with Wi-Fi connectivity is provided on the campus to the faculty and students to carryout research work.
- PG students are encouraged to undertake industry based problems for their dissertation work under guidance of expert faculty.
- Faculty undertake industrial consultancy and research assignments involving research work.

3.3.3 Has the Institution received any special grants or finances from the industry or other beneficiary agency for developing research facilities?? If 'yes', what are the instruments / facilities created during the last four years.

“NO”. So far the Institution has not received any special grants or finances from the industry or other beneficiary agency for developing research facilities.

3.3.4 What are the research facilities made available to the students and research scholars outside the campus / other research laboratories?

As such, there are no research facilities outside the campus and other laboratories, but the college has signed MoU's with industries and other agencies for promoting training, research and extension activities in technical education. The Management is planning to allocate budget for the next ten years towards research

- Upgrading the existing facilities

- Collaborating with industries for research
- Harnessing talents among the faculty members
- Identifying emerging areas and possible funding agencies

3.3.5 Provide details on the library/ information resource center or any other facilities available specifically for the researchers?

The college has information resource center (Library and Digital Library) to cater to the needs of researchers.

The facilities are:

- A central library with well stocked books and journals suitable for research
- E-journals and a large collection of e-books
- Thirty High performance Personal computers with high speed internet access for digital library users.

The information resources available in the Central Library are:

Library

- Titles
- Reference books:
- Back volumes
- Volumes
- News papers
- CD titles
- Project Reports
- National Programme Technology Enhanced Learning (NPTEL) video lectures:
- e-books
- Working Hours
- Print Journals
- Journals
- Magazines

Digital Library

- No. Of Computers: 30
- Broad Band Internet Connectivity: 10MBPS

NAAC - SELF STUDY REPORT

3.3.6 What are the collaborative research facilities developed/ created by the research institutes in the college. For ex. Laboratories, library, instruments, computers, new technology etc.

The college has MOUS with different industries and foresees to have a tie up with research institutes for collaborative research in the near future.

3.4 Research Publications and Awards

3.4.1 Highlight the major research achievements of the staff and students in terms of

- Patents obtained and filed (process and product)
- Original research contributing to product improvement
- Research studies or surveys benefiting the community or improving the services
- Research inputs contributing to new initiatives and social development

The major research achievements of the staff and students are given below

- Patents obtained and filed: NIL
- Original research contributing to product improvement: Research studies benefiting the community or improving the services are made and the following publications are the result of research done by the faculty

Faculty Publications:

Department	Total NO. of national Publications	Total No. of international publications
CSE	25	71
ECE	-	31
S & H	61	59
Mech	8	66
CIVIL	6	2
MCA	-	15
IT	-	14

Student Publications:

Department	Total No of Publications
ECE	17
CSE	40
EEE	5
Mech	0
CIVIL	25

- Research inputs contributing to new initiatives and social development
Patents obtained and filed (process and product) :
Research inputs are given to the young generation to know the opportunities ahead for them and thereby raise their aspiration to achieve more and the level of expectations, as well as desire for achieving higher quality of life

3.4.2 Does the Institute publish or partner in publication of research journal(s)? If 'yes', indicate the composition of the editorial board, publication policies and whether such publication is listed in any international database?

“Yes”. The institute has partnered in publication of the research journal, International Journal for Development of Computer Science and Technology(IJDCST) Special Issue Dec- 2016 on the occasion of “A Two Day National Conference On Next Generation Computing (NCNGC – 2016) on 23rd-24th December, 2016.

3.4.3 Give details of publications by the faculty and students:

- Publication per faculty:
- Number of papers published by faculty and students in peer reviewed journals (national / international):
- Number of publications listed in International Database (for Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- Chapter in Books
- Books Edited
- Books with ISBN/ISSN numbers with details of publishers
- Citation Index
- SNIP
- SJR
- Impact factor
- h-index

The institute encourages faculty and students to publish research papers.

- Publication per faculty:

NAAC - SELF STUDY REPORT

S.No		Faculty Name	Total No. of Papers Published	No. of the journals National / International	No. of the Confer ences Nation al/ Interna tional
1	ECE	R. Sunitha	4	4	-
2		V. Srinivasa Rao	2	2	-
3		B Y Gopinath	2	2	-
4		D. Ravi Shankar	1	1	-
5		R. Upendar Rao	2	2	-
6		S. A. Rehman	1	1	-
7		K. Prathyusha	8	8	-
8		G. Srinivas Babu	2	2	-
9		M.S.S.S. Srinivas	4	4	-
10		Y. Arpitha	3	3	-
11		M. Suneel	2	2	-
1	CSE	Dr. K. V. Sambasiva Rao	47	22	20
2		Dr. Y. Sushma	14	10	1
3		Dr. V. Suryanarayana	17	11	3
4		Mr. B. B. K. Prasad	3	3	-
5		Mr. K. Vamsi Krishna	3	2	1
6		Mr. Ch. Surya Kiran	11	5	3
7		Mrs. D. Suneetha	7	6	1
8		Mr. G. Karunakar	2	2	-
9		Mrs. M. Aruna Safali	8	8	2
10		Mrs. J. Praveena	4	4	1
11		Mr. E. Karunakar	2	2	-
12		Mr. D. Anand Avinash	1	1	-
13		Mr. P. Raghuv eer	1	1	-
14		Mr. A. Hari Krishna	-	-	-
15		Mr. P. Narendra Babu	2	5	2
16		Mr. B. Dasaradha Ram	-	-	-
17		Ms. K. Radha	1	1	-

NAAC - SELF STUDY REPORT

18		Mr. K. Mahendranath Chowdary	1	1	-
19		Mrs. M. Seshu Bhavani	-	-	-
20		Mrs. P. Venkata Anusha	6	5	1
21		Mr. R S V V Prasada Rao	-	-	-
22		Mr. M V P Uma Maheswara Rao	3	2	1
23		Mrs. S. Sivaleela	1	1	-
24		Mrs. T. Radhika	1	1	-
25		Ms. Md. Arsha Sultana	1	1	-
26		Mrs. T. Saadiya	1	1	-
27		Ms. P. Sai Geetha	1	1	-
28		Ms. Y. Kalyani	-	-	-
29		Mrs. B Naga Chandrika	-	-	-
30		Mrs. K.N.V.K. Durga Dev	1	1	-
31		Mr. SK. Mahaboob Basha	2	2	-
1	IT	Mr. V.Sudhakara Rao	2	2	-
2		Mr. Ch.V.Murali Krishna	2	2	-
3		Mrs. M.Praveena	1	1	-
4		Mrs. S. Nahida	2	2	-
5		Mrs. M.B.Anusha	4	4	-
6		Mr.Y.N.S.Satyanarayana	1	1	-
7		Mrs.CH. Santha Kumari	1	1	-
8		Mrs.P.Naga Lakshmi	1	1	-
1	MCA	Mr. B. MouleswaraRao	4	4	-
2		Mr. K. Chandramouli	3	3	1
3		K.Udaya Sri	3	3	-
4		Mrs. L. Kavitha	3	3	1
5		Mrs.G.Sireesha	2	2	-
1		Dr.N.Sambasiva Rao	19	19	8
2		R.Raghunadha Sastry	1	1	4
3		K. Venkata Kishore	3	3	3
4		S. Bhavani	3	3	-
5		I. Prasanna Kumar	2	2	3
6		B. Edukondalu	1	1	-
7		MA. Salma	2	2	-

NAAC - SELF STUDY REPORT

8	EEE	M. Tejaswini	2	2	-
9		M.Padma	1	1	-
10		S.Ramyaka	1	1	-
11		Y.Lalitha Kameshwari	5	5	6
12		V.Lalitha	1	1	-
13		N.M.Subhani	1	1	-
14		P.Sudha rani	1	1	-
15		P.Vidhya	1	1	-
1	BS &H	Dr.MVN SARMA	42	42	35
2		Dr.D.KAILASA RAO	10	10	10
3		Dr.C.V.N.RAO	39	39	10
4		Dr.KVB REDDY	3	3	-
5		Dr.L.VIJAYALAKSHMI	7	7	-
6		Dr. K.KRISHNA RAO	4	4	-
7		M.BABU PRASAD	4	4	4
8		D.SRINIVASULU	7	7	2
9		CH.S.SUBRAHMANYAN	-	-	3
10		D.VIJAYAKUMAR	-	-	1
11		P.RAJASEKHAR	-	-	1
12		A.SOMBABU	-	-	1
13		P.VIJAYA KUMAR	-	-	1
14		Y.MADHAVI	1	1	2
15		A.NEERAJA PADMA	1	1	2
16		T.SREELATHA	1	1	1
17		R.SRIDEVI	1	1	1
18		BVS PRASAD	1	-	1
19		I.DATTA SRAVANI	-	-	1
20		T.VIJAYA SRI	-	-	1
1	MECH	Dr. C.Nagabhaskar	26	24	2
2		Mr. Raffi Mohammed	13	13	--
3		Mr. R.Vijay Krishna	5	5	--
4		Mrs. K.Vidya	2	2	--
5		Mr. J.Sampath Suresh	4	4	--
6		Mr. V.Mohan Manoj	1	1	--
7		Mr. Ch.Naveen Kumar	5	5	--

NAAC - SELF STUDY REPORT

8		Ms. A.Madhuri	05	05	--
9		Mr. Sk.Abdul Azeez	04	04	--
10		Mr. Md.Nazeer	02	02	--
11		Mrs. P.Bharathi	01	01	--
12		Mr.K.Venkateswara Reddy	02	02	--
13		Mr. Y.Venkatesh	01	01	--
14		Mr. N.Syambabu	03	03	--
15		Mr.K.Naga Raju	01	01	--
1	CIVIL	CH.CH.SRINIVAS	3		
2		S.Pavan	2		
3		Kanagala Dinesh	1		

- Number of papers published by faculty and students in peer reviewed journal:

National : 94

International : 429

- Number of publications listed in International Database:

EEE : 68

- Monographs : NIL

- Chapters in books : NIL

- Books Edited : 17

S.No	NAME	DESIGNATION	NO. OF BOOKS EDITED/PUBLISHED
1	Dr.MVN SARMA	PROFESSOR	06
2	Dr.D.KAILASA RAO	PROFESSOR	10
3	D.SRINIVASULU	ASST.PROFESSOR	01

- Books with ISBN/ISSN numbers with details of publishers : 01

- Citation Index: NIL

- SNIP: NIL

- SJR: NIL

- Impact Factor:

S.No	Department	Impact Factor
1	ECE	2.08
2	CSE	04
3	IT	04
4	MCA	04

NAAC - SELF STUDY REPORT

5	EEE	1.3
6	MECH	3.01
7	CIVIL	1.3
8	BS&H	1.6278

➤ H-Index : NIL

3.4.4 Provide details (if any) of

- * Research awards received by the faculty
- * Recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally
- * Incentives given to faculty for receiving state, national and international recognitions for research contributions.

➤ Research awards received by faculty

S.No	Department	Name of Faculty	Name of Award	Year
1	CSE,IT & MCA	Dr. K.V. Sambasiva Rao	Eminent Educationist Award by FAPCCI and Govt. of AP	2013
2	EEE	Dr. N. Sambasiva rao	Best Researcher Award	2014
3	S&H	Dr.D.Kailasa Rao	a) Received Mahatma Gandhi Gold Medal National Award for Educational and Service Activities.	2014
			b) Received Dr. Abdul Kalam Gold Medal National Award for outstanding Research and Educational Activity	2015
			c) Received Vidya Ratna Award from Social Needs Education and Health Association (SNEHA) State Level Award, Tirupati	2016

NAAC - SELF STUDY REPORT

- **Recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally**

Sl.No	Name of the Faculty	Award/Recognition	Awarded By	Year
1	Dr. K.V. SambasivaRao	Who Is Who In The World	Marqui's International, New Jersey's	1998
2	Dr. N. Sambasiva Rao	Best Teacher Award	JNTUK	2014-15
3	Dr.D.Kailasa Rao	a) Attended duty without taking any leave including Casual Leave for 23 years and received appreciation	Management of Sarada College.	
		b)Received Best Teacher Award	Government of Andhra Pradesh during	2005
		c) Received Best Teacher Award	kanthi social organization, Vijayawada	2006

- **Incentives given to faculty for receiving state, national and international recognitions for research contributions:**

S.No	Name of The Faculty	Incentives Received
1	Dr.C.NagaBhaskar	10,000/-
2	Dr. K.V. Sambasiva Rao	10,000/-
3	Dr. N. Sambasiva rao	10,000/-
4	Dr.D.Kailasa Rao	10,000/-
5	M.Babu Prasad	10,000/-

NAAC - SELF STUDY REPORT

3.5 Consultancy

3.5.1 Give details of the systems and strategies for establishing institute-industry interface?

S. No	Who initiates	Nature of Interaction	When it is initiated
1	Training and Placement Cell	For arranging value added programs by industry experts Student placement	Throughout the year
2	Heads of the Departments	Industrial Visits Guest lectures and industrial training by industry experts	During the beginning of the semester
3	Students (in consultation with HoDs and Training and Placement)	Training and internships	During vacation period

The Training and Placement Cell ensures that the institution maintains symbiotic relationship with multiple industries across diverse segments. Meetings with industry and personnel result in signing of MoUs and accreditation by the industries and training services. Faculty members also establish industry institute relationship during industrial visits and internship training programmes

Data from placement cell regarding companies activity and placement The Following is the Composition Industry

S.No	Name	Designation
1	Dr.R.Venkatrao	Director
2	Dr.C.N.Bhaskar	Principal
3	Dr. M V N Sarma	Director R & D
4	S.Sri Harsha	TPO
5	T.Srilatha	Training lead
6	B.Bala Krishna	T & P Coordinator

3.5.2 What is the stated policy of the institution to promote consultancy? How is the available expertise advocated and publicized?

The institute allows consultancy works to be carried with outside agencies/industries to provide solution to industrial problems through sharing of expertise. Expertise is advocated and publicized in the following manner:

- Training and placement cell explores the possibility of collaboration during the interaction with various industries.
- Major areas of expertise are advertised through department homepage in the main college website and also through technical events/programs
- By reducing the academic and administrative workload of faculty while executing consultancy works
- By sponsoring the faculty to attend important workshops and seminars arranged by the leading technology consultants in relevant fields
- Institute periodically updates literature about the research activities and send to prospective companies highlighting the latest achievements including the facilities available with the department
- Major areas of expertise are advertised through department homepage in the main college website and also through technical events/programs, customized e-mails and public awareness talks

3.5.3 How does the institution encourage the staff to utilize their expertise and available facilities for consultancy services?

The institute encourages faculty to utilize expertise for consultancy by:

- Providing suitable advertisement at various avenues
- Encouraging faculty to make use of internal resources namely laboratory, library, computation facility etc., for experimentation and use software for solving and analyzing their consultancy projects
- Providing infrastructural facilities to organize and conduct consultancy services
- Industrial problems are always solicited to provide solution through expertise of faculty members. The students also get an opportunity to associate with professors in solving the industry problems

NAAC - SELF STUDY REPORT

3.5.4 List the broad areas and major consultancy services provided by the institution and the revenue generated during the last four years.

Details from CIVIL Department Areas of consultancy and income generated:

- A. BUILDING MATERIAL TESTING : CEMENT , METAL, REINFORCEMENT etc.,
- B. STRUCTURAL DESIGNS : Residential; Commercial, Industrial Buildings
- C. Building Construction Monitoring: Site Execution Consultancy Services.

Client Organization	Title of Consultancy of project	Amount received (in Rupees)
Praveenya Construction Vijayawada	STRUCTURAL DESIGN OF APPARTMENT FOR G+5 STORIED BUILDING	12750
PRI SUB -DIV ELURU	MIX DESIGN	4200
TELANGANA GRID	M.S.PIPE LINE DESIGN FOR RAILWAY CROSSING	8500
AP SPHC LTD.,	MATERIAL TESTING	13800
AP SPHC LTD.,	STRUCTURAL DESIGN OF CI QUARTERS AT NELLOR	24435
HEAL PARADISE	MATERIAL TESTING	16650
AP SPHC LTD.,	THIRD PARTY QUALITY CONTROL CHECKING OF ANIMAL SHEDS	9250
AP MSIDC	CONCRETE CUBES TESTING IN MATERIAL TESTING LABS	13000
S.C RAILWAY	CONCRETE CUBES TESTING IN MATERIAL TESTING LABS	8400

3.5.5 What is the policy of the institution in sharing the income generated through consultancy (staff involved: Institution) and its use for institutional development?

There is a provision for part of the revenue generated to be given to the faculty involved and certain a portion for development of the process/facility. The amount to be given to faculty as a part depends upon the nature of the project, cost and expenses incurred during developing solutions and so on. Generally the cost and expense part works out to 40- 60% of the revenue and faculty is given with 30 – 40% of the revenue generated

3.6 Extension Activities and Institutional Social Responsibility(ISR)

3.6.1 How does the Institution promote institution-neighborhood-community network and student engagement, contributing to good citizenship, service orientation and holistic development of students?

The Institute has identified the social responsibility as one of the major priorities to act upon which makes the students to learn ethical values and responsibilities required for good citizenship, service orientation and holistic development. Hence the Institute promotes community service as a mandatory program at undergraduate level to inculcate the sense of social responsibility and to provide a platform for self-learning and group learning mechanisms in future life.

The college established Entrepreneur Development Cell “Nurturing Entrrapreneurs at NRI Institute of Technology NEAN” in the year 2013. with the main objective of spreading awareness among the students of NRIIT and provide a launching pad for budding entrepreneurs to emerge out of in and around Vijayawada. NEAN conducted/is conducting several awareness creation programs on entrepreneurship.

Some of the significant achievements:

- NEAN collaborates with the E cell IIT Kharagpur and has co-hosted the **Entrepreneurship Awareness Drive (EAD-13)** at Vijayawada wherein, around 1000 students from different engineering colleges in and around Vijayawada participated in order to have awareness about entrepreneurship.
- NEAN is guided by a professor in-charge who lead a team of 80 students to participate in **Global Entrepreneurship Summit (GES-14)**, conducted by IIT Kharagpur, during January 2014, 2015 and 2016.
- A **Start Up Saturday** was organized on 08/03/2014 at NRIIT where in young entrepreneurs in and around Vijayawada gathered in a seminar to create awareness on entrepreneurship among students and shared their valuable experiences. This event was conducted by NRIIT in collaboration with **Entrepreneurs Mingle**, Vijayawada.

NAAC - SELF STUDY REPORT

- A three day workshop was conducted in Mar 2015 on the campus by AP Productivity Council in collaboration with National Science and Technology Development Board, New Delhi to **create awareness on entrepreneurship** to the students of NRIIT.
- **Start Up India-Workshop on entrepreneurial skills.**A one day workshop was conducted on February 27th 2016 on the campus by NEAN the E cell of NRIIT.The key speakers were Sri B.R.Sastry, M.D Methesis Industries Hyderabad, Ms Annapurna M D of Navya Food Processing,Hyderabad and Sri K.Ranga Rajan,AGM SBI,Vijayawada.125 students from second,third and final year B.Tech participated in the workshop.
- Four teams of NRIIT students were selected for the final round of Paper Presentation Contest to be held at Satyabhama University at Chennai on 19th November'2016, on the concept of Make in India. This event was conducted by the Project Council which is an ECI (Entrepreneurs Council of India) initiative. One team from NRIIT emerged as one of the best five teams in the prestigious competition in which around 1000 students participated from all over the country. NRIIT was also presented with an award of excellence for motivating the maximum number of student teams for participating in the above mentioned Paper Presentation Contest.
- A one day workshop on 'Developing Women Entrepreneurs' was conducted in the campus on 8th March'2017 on the eve of Women's day. Mrs. Vidya Kanna(ex Director of Jana Sikshana Samsthan, Vijayawada and Mrs. Vijayalakshmi a philanthropist were the resource persons for the workshop.
- The E cell of the campus also submitted proposals for financial assistance for conducting EDPED (ENTREPRENEURSHIP DEVELOPMENT PROGRAMS ON NURTURING ENTERPRISING SKILLS) and FDP(FACULTY DEVELOPMENT PROGRAM) to the Department of Science and Technology, Government of India.

NSS unit :

- promotes the neighborhood community network by organizing the

NAAC - SELF STUDY REPORT

following activities:

Develops leadership qualities among students, unemployed youth through health awareness camps, Blood Donation Camps and literacy programmes. The institute is conscious of its role in campus community connection, wellbeing of its neighborhood and has initiated a number of community development activities. These activities include: organizing regular blood donation camps, and blood donation on life saving emergency call. Organizing NSS camps where cleaning and sanitizing around neighboring villages is done, and self-awareness about cleanliness, water and other public safety is demonstrated.

Date	Camp	Venue
3-3-2017 28-2-2017	Cultural activities	Z.P. High School Kanasanapalli
27-2-2017	Special camp inauguration and yoga camp	Z.P. High School Nugondapalli
Dec 2016	Digital Transactions- Awareness rally on cashless transactions	Agiripalli
Nov 2016	Blood Donation Camp	NRIT
Sep 2016	Vanam Manam – The Sapling project	NRIT





3.6.2 What is the Institutional mechanism to track students' involvement in various social movements / activities which promote citizenship roles?

- Institute has conveners in each department for conducting of co-curricular and extracurricular activities. It has co-ordination with student counselors through which the students involvement in various social activities is monitored
- Extracurricular activities and value education provide avenues to students to become aware of social environment, social evils, citizen responsibility and individual contribution to make the society a better place to live
- The institute has NSS wing and students participate in various social activities. The Institute has motivated the students to maintain plastic free campus by banning the use of plastic in the campus to imbibe the qualities of social responsibility and also raise slogans to avoid plastic covers in around the Vijayawada cities.

3.6.3 How does the institution solicit stakeholder perception on the overall performance and quality of the institution?

The stakeholders' perception on the overall performance and quality of the institution is assessed through feedback obtained from the faculty, students, parents, alumni, inspection committees, visitor's comments, accreditation committees and through meetings with them. Rating of the institute by external agencies also helps to assess the overall performance and improve the quality of the institution wherever necessary.

NAAC - SELF STUDY REPORT

Students:

- The Institution conducts parent meets and collects feedback from parents regarding academic performance, quality and constructive suggestions to improve the quality of the Institution. Exit feedback is taken from recruiters during campus placement and analyzes them to hone up the skills of the students. The Management thereby makes decisions and policies keeping in view, the perceptions of all stake holders and recommends to the Governing Body.

Faculty:

- Interaction of the faculty with the Principal to discuss department requirement if any and other academic related issues

Alumni:

- The Institution has strong alumni association with a convener and faculty In charge from each department.

President – Dr. R. Venkata Rao, Chairman

Vice-President – Dr. C. Naga Bhaskar, Principal

Co-Ordinator – K. Vamsi Krishna

Members Ashraff Ali, Department of ECE
R. Raghunadha Sastry, Department of EEE
Ch. Surya Kiran, Department of CSE
Ch. V. Murali Krishna, Department of IT
V. Mohan Manoj Gupta, Dept of Mech Engg.
K. Bhaskar Rao, Department of Civil Engg.
K. Chandra Mouli, Department of MCA

- Approximately 1000 students have registered in alumni association
- The association organizes meetings and has regular formal and informal interactions wherein any alumnus is free to give their suggestions and feedback.
- The alumni activities are extended by interaction with current students, delivering suggestions and advising on placement opportunities and what the industry expects from them and what skills are to be acquired by them to match the industry of their domain

Industry:

- Feedback from the industrial experts visiting the department for guest lectures

3.6.4 How does the institution plan and organize its extension and outreach programs? Providing the budgetary details for last four years, list the major extension and outreach programs and their impact on the overall development of students.

- Institute organizes a number of outreach activities which relate to academic, social, cultural, community service etc., that culminate in forming a healthy society that contributes to nation building. The Institution with the help of voluntary organizations organizes these outreach programs. Apart from this Institution has its own budget for the programs.
- The NSS unit also has conducted several blood donation camps and tree plantation campaigns, made it a point to conduct at least once a year where many students and staff members donate blood voluntarily. It also conducts tree plantation campaigns regularly to create environmental awareness. The observed impact of such outreach programs has been found to boost the ethics of the students while actively participating in different social and cultural activities. Many students have visited old age homes, orphanages and many other charitable societies and spent their time with the people to provide educational support to orphans and moral support to old age people.

LIST OF ACTIVITIES AND BUDGET

3.6.5 How does the institution promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International agencies?

- The Institution has a dedicated unit of NSS established in the year 2008. The unit actively conducts several social welfare programs and encourages the students to participate in those activities. The information about the proposed activities is disseminated on the notice board, circulars, web notifications and also through oral interaction/briefing by the concerned section in charge.
- The Institution makes a conscious effort to promote social justice as a value in learning process and administrative interactions, for which sincerely practices state social affirmative schemes introduced by the government for the upliftment of higher education to under privileged communities.

3.6.6 Give details on social surveys, research or extension work (if any) undertaken by the college to ensure social justice and empower students from under-privileged and vulnerable sections of society?

NRIIT makes a conscious attempt to promote social justice as a value in learning process and administrative interactions. The Institution sincerely practices state social affirmative schemes introduced by the government for providing higher education to under privileged communities. The institute offers opportunities for career and personality development through Training and Placement cell.

The NSS unit organizes social welfare program every semester. NSS training prepares students morally and ethically strong enough to face challenges that emerge in day to day life.

3.6.7 Reflecting on objectives and expected outcomes of the extension activities organized by the institution, comment on how they complement students' academic learning experience and specify The values and skills inculcated.

Extension activities conducted by the Institute always imbibe academic learning experience, values and skills not only in students but also among the faculty. These activities refresh the environment of the Institute as well. The Institute strives to provide knowledge and quality education to all the sections of the society. It aims to maintain modern outlook with contemporary developments without compromising on moral values, to pursue intellectual, professional and cultural development to meet the national and universal challenges.

Outcomes of the extension activities:

The extension activities such as Social responsibility, Ethics and human values, Health and hygiene, National integration Communication with community, Team work, Training in fire fighting and providing flood relief. Social service and Environmental protection expose the students to real life time problems and stand tall for the cause of social upliftment of weaker sections of the society. The outcome of such extension activities assists the students to develop strong will to resolve these problems existing in the society through technology.

NAAC - SELF STUDY REPORT

3.6.8 How does the institution ensure the involvement of the community in its reach out activities and contribute to the community development? Detail on the initiatives of the institution that encourage community participation in its activities?

- The institute is roping in communities to actively participate in all the extension activities that contribute both to the community-Institution networking and development of the Institution
- The local villagers are initially consulted and the youth of the villagers are made to involve in all the NSS activities.
- Extensive local participation is witnessed during tree plantation, medical camps etc
- The Institution has also taken initiative to create awareness in the society about the social and health problems like female foeticide, dowry system, environmental protection, consumer protection, anti corruption, HIV awareness, anti-tobacco and alcohol, cleanliness awareness etc.,
- Time to time survey is conducted to check the feedback and improvement in society. Seminars and individual group discussion are conducted to solve these problems

3.6.9 Give details on the constructive relationships forged (if any) with other institutions of the locality for working on various outreach and extension activities.

The institution has constructive relationships with other organizations and Institutions of the locality such as Rotary club, Red Cross, Lions club etc. The blood donation camps are organized with the help of reputed hospitals. The NSS unit coordinates all its activities under the norms of the University. The unit organizes tree plantation, Swachh Bharat, awareness activities on water pollution, environment pollution, usage of pesticides etc.

S.NO	ACADAMIC YEAR	NAME OF THE PROGRAM	BUDGET AMOUNT
1	2016-2017	SPECIAL CAMP	22500
2	2016-2017	REGULAR CAMP	16000
3	2015-2016	SPECIAL CAMP	22500

NAAC - SELF STUDY REPORT

4	2015-2016	REGULAR CAMP	16000
5	2014-2015	SPECIAL CAMP	22500
6	2014-2015	REGULAR CAMP	16000

3.6.10 Give details of awards received by the institution for extension activities and/contributions to the social/community development during the last four years.

The Institution received appreciation from the adopted schools and from village panchayats for educating the villagers in cleanliness, hygiene, healthcare etc.

3.7 Collaboration

3.7.1 How does the institution collaborate and interact with research laboratories, institutes and industry for research activities. Cite examples and benefits accrued of the initiatives - collaborative research, staff exchange, sharing facilities and equipment, research scholarships etc.

- The Training and Placement Cell maintains a symbiotic relationship with industries and is instrumental in signing of MoUs and accreditation by the industries. The various departments of the institution also interact with industries in their concerned areas for research activities.
- Organizing industrial visits for students
- Sending students for internships
- Arranging guest lectures and workshops by reputed faculty and industry experts
- Encouraging faculty to attend refresher courses
- Collaborative research – Ph.D., research scholar pursuing in other universities
- Sharing of facilities – consultancy works in civil department.

The management also funds in-house and innovative projects of the students and many of the final year students execute their projects in reputed industries and research organizations

3.7.2 Provide details on the MoUs/collaborative arrangements (if any) with institutions of national importance/other universities/ industries/ Corporate (Corporate entities) etc. and how they have contributed to the development of the institution.

The Institute has signed MoUs with MNCs and reputed organizations to

NAAC - SELF STUDY REPORT

conduct activities like training, placements, guest lectures, participation in technical/scientific events and services. The Institute has signed MoUs with the following organizations.

S. No	Company	Location	Purpose
1	Mission ignite training services	Hyderabad, Telangana	Conducting recruitment drives
	Sify Technologies Limited	Chennai	Computer based tests
2	Apps Treasure IT solutions Pvt Lt	Hyderabad	Jobs, employment, empowerment
3	ARK Technologies , Mumbai	Mumbai	Certificate course on ANSYS_HFSS and MATLAB, Projects
4	Microlink Information Technologies	Vijayawada	Workshops, projects
5	Efftronics.	Vijayawada	internships
6	KUSALAVA INTERNATIONAL LTD.	Agiripalli	Internships, industrial visits, projects
7	FUTURE NDT	Vijayawada	Workshops, hands on training
8	M/s. Oracle University	Bangalore	training
9	Microsoft Ed-Vantage Programme	Bangalore	training
10	Andhra Pradesh State Skill Development Corporation(APSSDC)	Amaravati	Training, projects
8	Massive Open Online Courses(MOOCs)	JNTUK, Kakinada.	Online courses

3.7.3 Give details (if any) on the industry-institution-community interactions that have contributed to the establishment / creation/up-gradation of academic facilities, student and staff support, infrastructure facilities of the institution viz. laboratories / library/ new technology /placement services etc.

- Industry-Institution-community interactions are done by inviting Eminent personalities to deliver guest lectures, seminars etc. Importance of collaborative research projects and live projects for students is created by inviting eminent scientists and industrial personnel
- Faculty and students are encouraged to attend seminars ,workshops and update their knowledge to meet needs of industry and society .
-

NAAC - SELF STUDY REPORT

Outcomes of MoUs :

- Students are trained in MATLAB, sci lab ansys HFSS and labview, AUTOCAD, softwares.
- To provide industry oriented training to the students to be suitable for placement in Efftronics Systems Private Limited, Kusalava International Limited, EMc², INFOSYS campus connect

3.7.4 Highlighting the names of eminent scientists/participants who contributed to the events, provide details of national and international conferences organized by the college during the last four years.

The Institution has applied for funding to DST for conducting national and international conferences/workshops/Projects etc. One national conference has been sanctioned by DST entitled “A TWO DAY NATIONAL CONFERENCE ON NEXT GENERATION COMPUTING”, to Department of CSE. Also, several Guest Lectures/workshops/Seminars have been conducted in all departments.

The details of Eminent experts from university, Scientific Organization and Industry who visited our Institution and contributed to the career and development of students is provided in 3.1.8

3.7.5 How many of the linkages/collaborations have actually resulted in formal MoUs and agreements ? List out the activities and beneficiaries and cite examples (if any) of the established linkages that enhanced and/or facilitated -

- a) **Curriculum development/enrichment**
The Institute is affiliated to JNTU Kakinada, Hence there is no scope of curriculum.
- b) **Internship/ On-the-job training**
The Institute encourages students to attend various summer Internships and training programs at various corporate houses as a regular practice. The institute also offers Placement Trainings for Final year students during summer vacation and throughout the academic year for all the students.
- c) **Summer placement**
Students are encouraged to take up summer placement at various organizations.
- d) **Faculty exchange and professional development**
NIL
- e) **Research**
Guest Lectures, Workshops, Seminars and Conferences are organized.

NAAC - SELF STUDY REPORT

f) Consultancy

The College encourages consultancy for faculty members.

g) Extension

The Institute works in association with several social service organizations for performing extensional activities.

h) Publication

The Institution encourages students and faculty for publications. Refer 3.4.1 for details.

i) Student Placement

Esteemed organizations visit the Institute for providing placements to students regularly.

j) Twinning programmes - NIL

k) Introduction of new courses -

l) Student exchange - NIL

**m) Any other - YES MoU with UNK, USA
Colleborative Programme**

3.7.6 Detail on the systemic efforts of the institution in planning, establishing and implementing the initiatives of the linkages/ collaborations.

The Institute strives in establishing collaboration with several Industry related to academic and research activities for faculty and students in various specializations and industry institute interaction cell has been established for this purpose and its function includes

- MoU arrangements with various organizations
- Inviting expertise from industries, research organizations and universities

CRITERION - IV

INFRASTRUCTURE AND LEARNING RESOURCES

4.1. Physical Facilities

4.1.1 What is the policy of the Institution for creation and enhancement of infrastructure that facilitate effective teaching and learning?

NRIIT is proactive and has a positive approach for the development of good and modern infrastructure and this will definitely facilitate improved teaching and learning process. As per the policy matter, the institution has developed good infrastructure like Canteen, Transport Facility, Internet, Library with reading room, Digital Library, Well Equipped Laboratories, Playgrounds, Hostel in the campus. The institution has also planned to provide separate modern infrastructure for research activities.

4.1.2 Detail the facilities available for

a) Curricular and co-curricular activities – classrooms, technology enabled learning spaces, seminar halls, tutorial spaces, laboratories, botanical garden, Animal house, specialized facilities and equipment for teaching, learning and research etc.

Infrastructure facilities for curricular and co-curricular activities:

The college is located in a serene atmosphere in pothavarappadu Village, Agiripalli Mandal, Krishna District. The total extent of land available to the college is 20 acres.

S No	Name of the facility	Number of rooms	Area in sq.m
1	Class rooms	60	3960
2	Tutorial rooms	29	957
3	Drawing Halls	03	300
4	All laboratories	45	3375
5	Seminar halls	1	1584
8	Computer centre	01	293.33
9	Library	01	600
10	Open Auditorium	01	12140.58

Classrooms:

The institution has sufficient number of well-furnished, well-ventilated, spacious classrooms for conducting theory classes and tutorial classes.



Figure 4.1 :Class room

Technology enabled learning rooms:

Departments are provided with LCD projectors and audio equipment, LAN enabled internet connectivity in each classroom to facilitate technology enabled learning.



Figure 4.2 :Technology anabled room

Seminar Hall:

NRIIT has seminar hall to conduct conferences, workshops and symposia for students and faculty. It has a seating capacity of 400 and is air conditioned and is equipped with LCD projector, white board and public addressing system.

Laboratories:

All laboratories are well equipped, and well maintained not only for carrying out curriculum-oriented practical's but also to carry out experiments beyond curriculum.



Figure 4.3 :Laboratory

b) Extra –curricular activities – sports, outdoor and indoor games, gymnasium, auditorium, NSS, NCC, cultural activities, Public speaking, communication skills development, yoga, health and hygiene etc.

Sports:

The College encourages and provides facilities for students to participate in both outdoor and indoor games. The college has always created a niche for itself in the field of sports with our students participating in various inter-university level tournaments. A full time Physical Director trains the students to achieve greater heights in their fields of interest.

NSS:

The college has NSS unit which is effectively undertaking social welfare exercises like blood donation, plantation of trees, directing different

meaningful programs and Swachh Bharat for cleaning actions in surrounding villages.



Figure 4.4 : Vanam-Manam

Cultural Activities:

The College also encourages the students to participate in various cultural and literary activities and make the students excel in their fields of interest.



Figure 4.5 : Cultural activity

Public speaking communication skills development:

The communication skills lab trains the students in enhancing their skills.

NAAC - SELF STUDY REPORT

4.1.3 How does the institution plan and ensure that the available infrastructure is in line with its academic growth and is optimally utilized? Give specific examples of the facilities developed/augmented and the amount spent during the last four years (Enclose the Master Plan of the Institution / campus and indicate the existing physical infrastructure and the future planned expansions if any).

Institution has developed Infrastructure and facilities as per the AICTE and the affiliating University norms. The campus is totally surrounded with pleasing scenery, plenty of trees greenery around the college building, sufficient space for outdoor games, canteen etc., as required for the welfare of the students.

All our activities have been brought under the ISO quality system.

- By assessing the requirements and availability periodically through reviews, the infrastructure is optimally utilized.
- Common facilities like computer and other laboratories, library, Seminar halls etc. are utilized by all the departments.

The following amount is spent towards construction, establishment of laboratories, equipment, furniture etc, during the last 4 years, viz: 2016-17, 2015-16, 2014-15, 2013-14 as shown below.

Particulars	2016-17	2015-16	2014-15	2013-14
Lab Maintenance	1115640	544406	474636	250704
Electricity	4487056	3045627	3550835	1948548
Training & Travelling	2731571	1828606	1145745	1401717
Building	25361761	2455435 5	2556247 9	36975383
Computers	2178000	6787763	951248	5284400
Furniture	3254585	1386318	2619705	5099698
Fire Safety	1435050	10000	20000	25000
Generator	120000	80000	50000	665000
Lab Equipment	543683	350000	1841598	3228988

NAAC - SELF STUDY REPORT

Library	182000	20000	25000	654530
Vehicles – Buses	6102279	120000	220000	19277325
Others	120943	564750	534250	907018
TOTAL	47632568	3929183 5	3699549 6	75718311

NAAC - SELF STUDY REPORT

MASTER PLAN

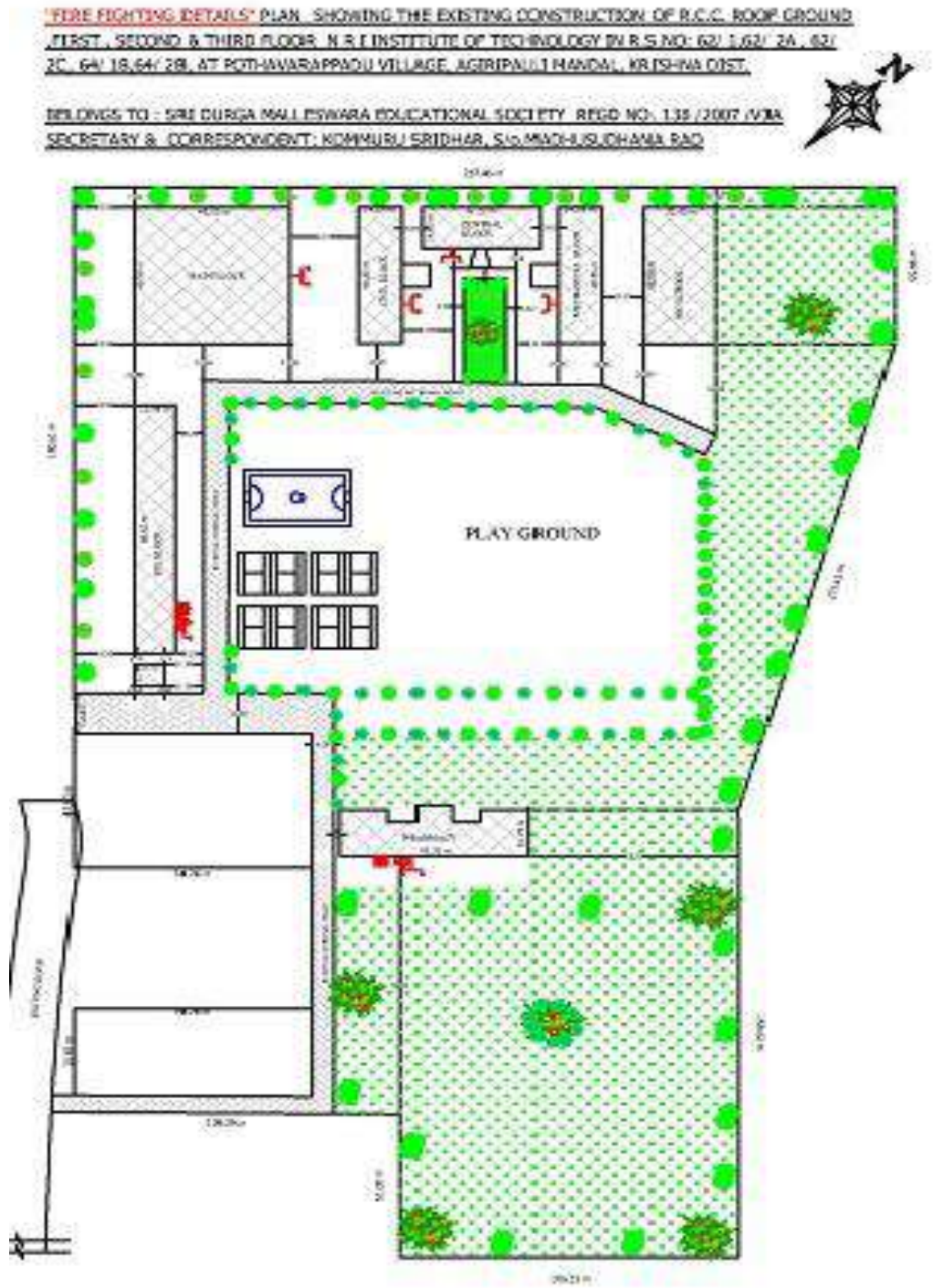


Figure 4.6 : Master Plan of the college

4.1.4 How does the institution ensure that the infrastructure facilities meet the requirements of students with physical disabilities?

To ensure that the infrastructure facilities meet the requirements of the differently-abled, the institute conducts its classes in the ground floor and maintains a separate facility for library books arranged through supporting staff. In addition most of the lab facilities are provided in the ground floor with a few in the first floor to provide easy access a ramp is provided for them.

4.1.5 Give details on the residential facility and various provisions available within them:

Hostel Facilities:

The college has a hostel for boys with facilities such as common room with TV, magazines, sports and games, internet and Wi-Fi facility etc. The hostel capacity and other details are given below.

S No	Description	Boys
01.	Location	College premises
02.	Area in sq.m	2252
03.	Internet	available
04.	Capacity for accommodation	178

Hygiene facilities:

Every floor has water coolers with RO purifiers with consistent supply of cleansed drinking water to all the students.

The campus is totally secured with the help of security personnel provided by the NRIIT. For safety against fire, adequate number of fire extinguishes and water points are available in the college and also in the hostel.



4.1.6 What are the provisions made available to students and staff in terms of health care on the campus and off the campus?

First-Aid room with all crisis life supporting systems is accessible in the college. The college has a Ambulance and a doctor to meet medicinal crises for students and staff. In case of emergency the suffering person will be taken to nearby hospital for the treatment.

4.1.7 Give details of the Common Facilities available on the campus–spaces for special units like IQAC, Grievance Redressal unit, Women’s Cell, Counseling and Career Guidance, Placement Unit, Health Centre, Canteen, recreational spaces for staff and students, safe drinking water facility, auditorium, etc.

NRIIT has marked separate space for the common facilities on the campus. These are equipped with necessary office space, computing and other facilities. Institution has a grievances and redressal cell headed by a senior faculty member. Career guidance cell, training and placement cell, health care etc., are also available in the institution.

Counselling and career guidance: Placement cell, headed by Training and Placement Officer is located in the main block. The infrastructure facility consists of TPO’s chamber, room for aptitude trainer, dining facility and cubicles for the purpose of interviews during campus recruitment. The career counselling activity is taken up by the T & P cell. Personal and academic counselling is carried out in a systematic manner through proctorial system which has been in place at NRIIT for the last 8 years and also by organizing various guest lectures, seminars etc..

Canteen: A centralized spacious canteen with kitchen facility is there, to cater to the needs of the staff and students in which quality and hygiene are given utmost importance in both cooking and serving.

Drinking water: Continuous water supply is ensured through bore wells and fresh water canal available near the college and for drinking water a RO plant (Mineral water plant) with a capacity of 1000 litre per hour of drinking water has been installed.

Power supply: Electrical power is supplied to NRIIT through a 11 K.V. 3- phase feeder from A.P. Transco. The institute presently has two 125 KVA diesel Generators to support the power segment in case the A.P. Transco supply fails.

Communication: The Management has provided intercom phones to all the functionaries with group calling facility.

Transport: Considering the need to provide comfortable and safe transport to the students & staff, the institute is running a fleet of 45 buses.



Figure 4.6 : College buses

4.2 Library as a Learning Resource

4.2.1 Does the library have an Advisory Committee? Specify the composition of such a Committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?

Yes, the library has an advisory committee. The library committee consists of Principal as Chairman, Librarian as Convener and one faculty member from each department as a member. The committee meeting is held once in a semester to discuss and try to implement the aspects like,

- Upgrading the library through new titles and increase in the number of volumes of existing titles.
- Steps to be taken to make library more user-friendly.
- Evaluation of the library usage
- Library services and usage Feedback from members (students and faculty)

Library has long working hours (9AM to 9PM) with internet facility on all days including Saturday and Sunday.

4.2.2 Provide details of the following :

01	Carpet Area of Library	600 sqm
02	Reading Space	250 sqm
03	Seating Capacity in reading space	200

NAAC - SELF STUDY REPORT

04	No. of users (issue book)per day	75-100
05	No. of users (reading space)per day	50
06	Academic Working day	9.00am-9.00pm
07	Academic week end	9.00am-9.00pm
08	Vacation	9.00am-9.00pm
09	Computerization for search, index, issues /return records	Yes

4.2.3 How does the library ensure purchase and use of current titles, print and e journals' and other reading materials? Specify the amount spent on procuring new books, journals and e-resources during the last four years.

Catalogues, brochures, pamphlets, from various publishers are distributed to the departments to enable them to make choices and requisitions. Accumulating these requisitions and based on the recommendations of the Library committee, the order for the purchase of Books/ Journals and other materials is placed with a suitable vendor before the commencement of every semester. The new arrivals of books and journals are kept for display for creating awareness among the users.

Library Holdings	2012 – 2013 Year 1		2013– 2014 Year 2		2014 – 2015 Year 3		2016 – 2017 Year 4	
	Number	Total Cost	Number	Total Cost	Number	Total Cost	Number	Total Cost
Text Books	2141	624085	1200	54007	2351	58467	8000	42536
Reference Books	202	82898	48	20216	13	6321	8	3338
Journals/ Periodicals	89	157510	32	18523	12	5899	10	5682
e-resources	6 Packages	157510	25	15326	25	10235	25+680000*	11235
Any other (Specify)	Delnet 1500000	25000	1500000	25000	150000	25000	150000	25000

* borrowed from National Digital Library

4.2.4 Provide details on the ICT and other tools deployed to provide maximum access to the library collection?

NAAC - SELF STUDY REPORT

- OPAC : YES
- Electronic Resource Management package for e-journals : Delnet
- Federated searching tools to search articles in multiple databases : Yes
- Library Website : Yes
- In-house / remote access to e-publications : Yes
- Library automation :Barcod
- Total number of computers for public access : 30
- Total numbers of printers for public access : 2
- Internet bandwidth / speed : 10Mbps
- Institutional Repository : Yes
- Content management system for e-learning : Yes
- Participation in Resource sharing networks / consortia (like Inflibnet) :NPTEL

4.2.5 Provide details on the following items:

- Average number of walk-ins : 100
- Average number of books issued /returned ISSUES:75 RETURNS :50
- Ratio of library books to students enrolled : 3:1
- Average number of books added during last three years : 1403
- Average number of logins to opac(OPAC) : YES
- Average number of logins to e-resources : 5
- Average number of e-resources downloaded /printed : 50
- Number of information literacy trainings organized : 1
- Details of —weeding out of books and other materials : Yes

4.2.6. Given details of the specialized services provided by the library.

- Manuscripts : YES
- Reference : YES
- Reprography : YES
- ILL (Inter Library Loan Service) : YES
- Information deployment and notification (Notice Boards) : YES
- (Infion Deployment and Notification)
- Download : YES
- Printing : YES
- Reading list /Bibliography compilation : YES
- In-house /remote access to e-resources : Yes
- User Orientation and awareness : YES
- Assistance in searching Databases : YES
- INFLIBNET/ IUC facilities ; YES

4.2.7. Enumerate on the support provided by the library staff to the students and Teachers of the college .

- Individual user orientation
- Educate how to use e-Journals
- Providing hands-on experience to access e-resources
- Information alert services on New arrivals
- Books/other materials Reservation facility
- Providing assistance to search reserved books on stacks.
- SMS services for overdue books

4.2.8 What are the special facilities offered by the library to the visually/ physically challenged persons? Give details.

Staff are arranged to help the differently abled persons. Till date there are no differently abled students in our college.

4.2.9 Does the library get the feedback from its users? If yes, how is it analyzed and used for improving the library services. (What strategies are deployed by the Library to collect feedback from users? How is the feedback analyzed and used for further improvement of the library services?)

- **Yes**, a feed back / suggestions/complaints box is kept in the library to get feedback from staff and students at any point of time.
- **Yes** Any useful suggestion or complaint received is analyzed and finalized by the committee.

4.3 IT INFRASTRUCTURE

4.3.1 Give details on the computing facility available (hardware and software) at the institution. Number of computers with Configuration (provide actual number with exact configuration of each available system)

NRIIT provides IT infrastructure that facilitates to meet all the demands of Teaching/Learning Process. The computing facility available in the college is as given below:

NAAC - SELF STUDY REPORT

Computer Lab – 1 : CDS & ADS Lab

SNo	Particulars	Quantity
1	Desktops :: Brand - HP DX 2480 Intel Core 2 Duo 2.4Ghz Processor, Intel Chipset Mother Board, 1 GB DDR2 Ram, 160 GB SATA HDD, 1000 Mbps onboard Ethernet, 17" TFT Monitor, HP USB Optical mouse &Keyboard.	75 Systems
2	Networking Components : 12u Valrack Mount Rack	1 No's
	24 port D-Link 10/100 MBPS switches	5 No's
	8 port Giga Byte switch	1 No's
3	UPS : EATON 10KVA Online UPS	2 No's

Computer Lab – 2:ELCS &IT Workshop Lab

SNo	Particulars	Quantity
1	Desktops :: Brand - IBM Lenovo Think CentreM55E Intel Core 2 Duo 2.2Ghz Processor, Intel 946 Chipset Mother Board, 1 GB DDR2 Ram, 160 GB SATA HDD, 1000 Mbps onboard Ethernet, 17" TFT Monitor, Lenovo USB Optical mouse &Keyboard.	61 Systems
2	12u Valrack Mount Rack	1 No's
	8 port Giga Byte switch	1 No's
	24 port D-Link 10/100 MBPS switches	3 No's
	24 port D-Link Patch Panel	3 No's
3	UPS : EATON 10KVA Online UPS	2 No's
4	Head Phones	65 No's

NAAC - SELF STUDY REPORT

Computer Lab – 3: Java, Adv. Java &DBMS Lab

SNo	Particulars	Quantity
1	Desktops :: Brand - HP DX 2480 (19,700) Intel Dual Core 2.5Ghz Processor, Intel Chipset Mother Board, 1 GB DDR2 Ram, 160 GB SATA HDD, 1000 Mbps onboard Ethernet, 18.5" TFT Monitor, HP USB Optical mouse &Keyboard.	70 Systems
2	Networking Components : 9u Valrack Mount Rack	- 1 No's
	24 port D-Link 10/100 MBPS switches	- 3 No's
	24 port D-Link Patch Panel	- 2 No's
	8 port Giga Byte switch	- 1 No's
3	UPS : EATON 10KVA Online UPS	-2 No's

Computer Lab – 4: WT& DM Lab

SNo	Particulars	Quantity
1	Desktops :: Brand - HP PRO 3090 (22,300.03) Intel Dual Core 2.7Ghz Processor, Intel G43 Chipset Mother Board, 2GB DDR3 Ram, 320 GB SATA HDD, 1000 Mbps onboard Ethernet, 18.5" TFT Monitor, HP USB Optical Mouse &Keyboard	72 Systems
2	9u Valrack Mount Rack	1 No's
	8 port Giga Byte switch	1 No's
	24 port D-Link 10/100 MBPS switches	3 No's
	24 port D-Link Patch Panel	3 No's

NAAC - SELF STUDY REPORT

Computer Lab – 5 : DSP Lab

SNo	Particulars	Quantity
1	Desktops :: Brand - HP PRO 3090 (22,300.03) Intel Dual Core3.0Ghz Processor, Intel G43 Chipset Mother Board, 2GB DDR3 Ram, 320 GB SATA HDD, 1000 Mbps onboard Ethernet, 18.5" TFT Monitor, HP USB Optical Mouse &Keyboard.	31 Systems
2	Desktops :: Brand - HP PRO 3330 (23,100.00) Intel Dual Core3.0Ghz Processor, Intel G43 Chipset Mother Board, 2GB DDR3 Ram, 320 GB SATA HDD, 1000 Mbps onboard Ethernet, 18.5" TFT Monitor, HP USB Optical Mouse &Keyboard	39 Systems
3	9u Valrack Mount Rack	1 No's
	8 port Giga Byte switch	1 No's
	24 port D-Link 10/100 MBPS switches	3 No's
	24 port D-Link Patch Panel	3 No's
4	UPS : EATON 10KVA Online UPS	-2 No's

Computer Lab –6 OS & CD Lab

SNo	Particulars	Quantity
1	Desktops : Brand - HP PRO 3330 (23,100.00) Intel Dual Core3.0Ghz Processor, Intel G43 Chipset Mother Board, 2GB DDR3 Ram, 320 GB SATA HDD, 1000 Mbps onboard Ethernet, 18.5" TFT Monitor, HP USB Optical Mouse &Keyboard	75 Systems
2	12u Valrack Mount Rack	1 No's
	8 port Giga Byte switch	1 No's
	24 port D-Link 10/100 MBPS switches	3 No's
	24 port D-Link Patch Panel	3 No's
3	UPS : EATON 10KVA Online UPS	2 No's

NAAC - SELF STUDY REPORT

Computer Lab – 7: Mechanical Application Lab

SNo	Particulars	Quantity
1	Laptops: Brand Intel Dual Core3.0Ghz Processor, Hp Pentium N3530 2GB Ram, 500 GB HDD, 1000 Mbps onboard Ethernet, 14" LED Monitor, HP USB Optical Mouse	60 Systems
2	9u Valrack Mount Rack	– 1 No's
	8 port Giga Byte switch	– 1 No's
	24 port D-Link 10/100 MBPS switches	– 3 No's
	24 port D-Link Patch Panel	– 3 No's
3	UPS : VGUARD 10KVA Online UPS	1 No's

Computer Lab –8: CIVIL Application Lab

SNo	Particulars	Quantity
1	Laptops: Brand – Intel Dual Core3.0Ghz Processor, Hp Pentium N3530 2GB Ram, 500 GB HDD, 1000 Mbps onboard Ethernet, 14" LED Monitor, HP USB Optical Mouse	63 Systems
2	9u Valrack Mount Rack	1 No's
	8 port Giga Byte switch	1 No's
	24 port D-Link 10/100 MBPS switches	3 No's
	24 port D-Link Patch Panel	3 No's
3	UPS : VGUARD 10KVA Online UPS	1 No's

NAAC - SELF STUDY REPORT

Computer Lab – 9 UNIX Lab

SNo	Particulars	Quantity
1	Desktops : Brand - HP PRO 3330 Intel Dual Core3.0Ghz Processor, Intel G43 Chipset Mother Board, 2GB DDR3 Ram, 320 GB SATA HDD, 1000 Mbps onboard Ethernet, 18.5" TFT Monitor, HP USB Optical Mouse &Keyboard	82 Systems
2	12u Valrack Mount Rack	1 No's
	8 port Giga Byte switch	1 No's
	24 port D-Link 10/100 MBPS switches	3 No's
	24 port D-Link Patch Panel	3 No's
3	UPS : EATON 10KVA Online UPS	2 No's

Computer Lab – 10: Hadoop Lab

SNo	Particulars	Quantity
1	Desktops : Brand - HP 280 G1 MT Intel Dual CoreG3250 3.2Ghz Processor, 2GB DDR3 Ram, 500 GB SATA HDD, 1000 Mbps Onboard Ethernet, 18.5" LED Monitor, HP USB Optical Mouse &Keyboard.	25 Systems
2	Desktops : Brand - HP 202 G2 MT Intel Dual CoreG3250 3.2Ghz Processor, 4GB DDR3 Ram, 500 GB SATA HDD, 1000 Mbps Onboard Ethernet, 18.5" LED Monitor, HP USB Optical Mouse &Keyboard.	99 Systems
3	12u Valrack Mount Rack	- 1 No's
	8 port Giga Byte switch	- 1 No's
	24 port D-Link 10/100 MBPS switches	- 3 No's
	24 port D-Link Patch Panel	- 3 No's
4	UPS : EATON 10KVA Online UPS	- 2 No's

NAAC - SELF STUDY REPORT

Computer Lab – 11 :Digital Library

SNo	Particulars	Quantity
1	Desktops : Brand - HP 280 G1 MT Intel Dual CoreG3250 3.2Ghz Processor, 2GB DDR3 Ram, 500 GB SATA HDD, 1000 Mbps Onboard Ethernet, 18.5” LED Monitor, HP USB Optical Mouse &Keyboard.	30 Systems
2	12u Valrack Mount Rack	1 No’s
	8 port Giga Byte switch	1 No’s
	24 port D-Link 10/100 MBPS switches	3 No’s
	24 port D-Link Patch Panel	3 No’s
3	UPS : EATON 10KVA Online UPS	2 No’s

Central Computing Facility:

Stand alone systems:

SNo	Particulars	Quantity
1	Desktops : Brand - HP 280 G1 MT Intel Dual CoreG3250 3.2Ghz Processor, 2GB DDR3 Ram, 500 GB SATA HDD, 1000 Mbps Onboard Ethernet, 18.5” LED Monitor, HP USB Optical Mouse &Keyboard.	126 Systems
2	12u Valrack Mount Rack	2 No’s
	8 port Giga Byte switch	2 No’s
	24 port D-Link 10/100 MBPS switches	6 No’s
	24 port D-Link Patch Panel	6 No’s

Specification:

Licensed software

		Application	System
1.	Relevant Legal Software	Microsoft Word 2010 Microsoft Excel 2010 Microsoft Frontpage Microsoft Outlook Microsoft Access	Windows XP Pro Windows Vista Ultimate Edition Windows 7 ultimate Edition

NAAC - SELF STUDY REPORT

		Microsoft Powerpoint C C++ Java EZ School Student Management K-Van Multimedia Lab K-Van Advanced Comm. Skills GlobarenaEL and CL clients Xylinx Labtech Microsoft Visual Studio Microsoft Visual Studio .net Microsoft SQL Server Microsoft Sharepoint Server	Windows 2008 server Redhat Enterprise Linux
2	Peripheral(s) / Printers	Printers HP Laser Jet 1020 Printer - 4No Cannon LBP 1210 Printer - 3 No's Cannon LBP 2900Printer - 12 No's Color Printer - 1 No HP Laser jet M1213nf MFP - 1 No's Ricoh SP 1200S - 1 No's Samsung SCX4521F - 2 No's ARGOX OS2140 Barcode Printer - 1 No's	
3	Internet Accessibility (in KBPS &Hrs)	10 MBPS – Unlimited - BSNL Leased Line 10 MBPS – Unlimited - BSNL Broadband Line 10 MBPS – Unlimited - BSNL Broadband Line 15 MBPS – Unlimited - Orange Net Broadband	

Power Backup:

- EATON 18X10 KVA Online UPS
- VGUARD 2X10KVA online UPS for power backup.
- Two Generators of total capacity 125 KVA POWERICA each are available under power failure conditions
- 24 hours HT 200 KVA power supply

4.3.2 Detail on the computer and internet facility made available to the faculty and students on the campus and off-campus?

- Internet service is available for both faculty and students in the campus. 125 systems are provided with internet facility in the central computing centre

- All the departmental computing centers are provided with internet facility
- 30 systems are provided with internet facility in the central library
- Internet service is provided to both girls and boys hostels
- The College provides internet facility to staff members at the respective departments so that they can update their knowledge with latest developments and also avail e-resources which help them in improvising teaching - learning process.
- The Principal's Office, Administrative Office, Examination Section, Training and Placement Cell and Senior Faculty member cabins are provided with internet facility

4.3.3 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

Computer systems are upgraded with latest configuration once in three years.

- Individual up gradation of the computers is taken up as per the needs and requirements of the various departments.
- Enough provision is made available in the annual budgets for the procurement of the computer systems.
- Once new systems are procured, they replace the existing systems as per the requirements of the departments.
- All the computer systems in the campus are regularly monitored by the system administrator and maintenance staff.
- The trouble/problems experienced by the computers in the various laboratories are entered by the lab programmers/technicians in the complaint register which is kept in the server room.
- The maintenance staff will then go to the respective labs for identification of the problems and resolve the same at the respective places.
- In case of major problems i.e. replacement of component/part during warranty, they are sent to the respective service centers and got replaced at the earliest.
- Computer centre is provided with four servers of different capacities to cater to the computer requirements.

4.3.4 Provide details on the provision made in the annual budget for procurement, up gradation, deployment and maintenance of the computers and their accessories in the institution (Year wise for last four years)

Amount spent for procurement, up gradation, deployment and maintenance of the computers and their accessories in the institution during last four years:

Year	2015-16	2014-15	2013-14	2012-13
Amount Spent (Rupees)	166820	190376	95225	1061212

4.3.5 How does the institution facilitate extensive use of ICT resources including development and use of computer-aided teaching/ learning materials by its staff and students?

- The Institution has adequate computer facility for its faculty. Faculty members are provided with computers with internet facility for preparation of teaching/learning materials in their respective departments.
- The faculty are encouraged to use power point presentations for delivering lectures and technical talks.
- Lesson plans are prepared in a standard format in the computer.
- Attendance, internal assessment and University marks are software based.
- Students' feedback is taken on-line and analysis of students' feedback is generated using software.
- Centralized database system is available both for staff and students.
- Every department has 3 LCD projectors.
- Internet access to all faculty and students help them to access journal, e-learning material available in other universities and make use of the same for knowledge enhancement.
- In the departmental seminars organized by students, they are encouraged to use latest methodologies for their presentations.
- Using NPTEL, MIT and other e-learning resources for self-paced learning that supplements regular lectures.

4.3.6 Elaborate giving suitable examples on how the learning activities and technologies deployed (access to on -line teaching learning resources, independent learning, ICT enabled classrooms/learning spaces etc.) by the institution place the student at the centre of teaching-learning process and render the role of a facilitator for the teacher.

NAAC - SELF STUDY REPORT

- To make the student attentive and engaged throughout the class is a challenge to every teacher. This is possible through effective and interactive teaching. Apart from teaching and knowledge of faculty, PPT and relevant videos help the students to easily grasp the concepts and gain maximum information. Hence the entire faculty are encouraged to use such methodologies.
- JNTUK runs COEdRD portal for students and staff to browse/download subject wise e-contents
- To effectively utilise the internet facility, e-learning material are made available to the faculty and students.
- In the library e-learning material (NPTEL video lectures) and the accession of online lectures of various experts from various affiliated institutions.

4.3.7 Does the Institution avail of the National Knowledge Network connectivity directly or through the affiliating university? If so, what are the services availed of?

Yes, the service is availed of through NPTEL and online courses of various IITs.

4.4 Maintenance of Campus facilities

4.4.1 How does the institution ensure optimal allocation and utilization of the available financial resources for maintenance and upkeep of the following facilities (substantiate your statements by providing details of budget allocated during last four years)?

Particulars	2016-17	2015-16	2014-15	2013-14
Salaries	64262033	50519026	45392556	44325020
Lab Maintenance	1115640	544406	474636	250704
Electricity	4487056	3045627	3550835	1948548
Training& travelling	2731571	1828606	1145745	1401717
Building	25361761	24554355	25562479	36975383
Computers	2178000	6787763	951248	5284400
Furniture	3254585	1386318	2619705	5099698
Fire Safety	1435050	50000	50000	50000
Generator	1530000	1285000	855000	665000
Lab Equipment	543683	1068435	1841598	3228988
Library	3145	49560	69532	654530
Vehicles – Buses	6102279	579236	496523	19277325
Others	120943	564750	534250	907018
TOTAL	111595746	89230851	82073052	120018331

4.4.2 What are the institutional mechanisms for maintenance and upkeep of the infrastructure, facilities and equipment of the college?

- The annual maintenance of the equipments in all labs is thoroughly done regularly.
- The teaching and non-teaching staff are engaged in this activity and ensure that all equipments are functioning well and also seek external support if needed during the period. This ensures the teaching and learning process run smoothly in all aspects throughout the year.
- The stock verification is done during the same period to identify the non working equipments and suggest necessary replacements.
- Regular cleaning and up keep of the equipment is taken care of by the lab in-charge.

4.4.3 How and with what frequency does the institute take up calibration and other precision measures for the equipment/instruments?

- The calibration process will be taken up by each department for various equipments as per the time frequency suggested by the supplier.
- Historical data of each equipment maintained in the labs where the measured values are compared with earlier measured data and also with the standard values. Any deviation in this regard will be noted and necessary steps are initiated by calling technicians from the supplier.

4.4.4 What are the major steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water etc.)?

The institution has two 125 KVA generators which helps in continuous power supply without any interruption. The computer systems and other sensitive lab equipment are provided with UPS systems to protect them against voltage fluctuations. All precautions are taken to protect the precision equipment by providing CVT's and individual MCB's. Covers are provided wherever needed to protect the sensitive equipment from dusty environment. Electrical grounding (Earthing) is provided at important locations. Fire extinguishers are provided in all hazardous places including labs. Purified drinking water is provided in the college through water coolers.

CRITERION V: **STUDENT SUPPORT AND PROGRESSION**

5.1 Student Mentoring and Support

5.1.1 Does the institution publish its updated prospectus/handbook annually?

If 'yes', what is the information provided to students through these documents and how does the institution ensure its commitment and accountability?

Yes the Institution does publish both Prospectus and Handbook annually

- In case of brochure, the Institution provides information regarding various Branches of Engineering courses offers, infrastructure facilities available in the college, previous results, information regarding placements during last few years and the facilities provided for placements and training . It is circulated among prospective students to choose admission in the Institution.
- Hand Book is printed every year with most updated information. The Book is made ready for distribution to the parents and students who are newly admitted to the institution on the first day of college during the interactive session conducted by the Principal and Management. An invitation is extended to all the parents by means of a phone call and SMS to attend this interactive session.
- This Hand book contains various courses offered along with the titles of the papers in each semester and also University regulations regarding various courses and the examination pattern. It also contains the Faculty in each branch with HoD name, contact number and email address. It contains the College Rules and Regulations along with the punishments in case of violation of rules. Names and contact number of various Committees such as Anti-ragging Committee, Disciplinary Committee etc. are also provided in the Handbook. A brief history of the College along with the citations of the important persons of Management and College are also provided in the book.

5.1.2 Specify the type, number and amount of institutional scholarships / free ships given to the students during the last four years and whether the financial aid was available and disbursed on time?

- The College is situated in a remote rural area and more than eighty percent of the students join in this institution come from poor rural background. Children belonging to economically and socially

NAAC - SELF STUDY REPORT

backward prefer to join in the institution as the institution provides financial facilities to them. Even those belonging to forward caste but are poor reach the management in tens of numbers every year for the financial help to educate their wards in Engineering Courses. The Management extends its helping hand by collecting less fees than the Government prescribed fee. Sometimes the Management completely waives off the fee and provides free education depending on the social and financial background of the student along with their merit and enthusiasm for higher studies.

Table Showing the Number and Amount of Financial Aid Extended by the Institution

Category	2015-16		2014-15		2013-14		2012-13	
	Number	Amount	Number	Amount	Number	Amount	Number	Amount
		Rs.		Rs.		Rs.		Rs.
SC	18	1,80,000	15	1,50,000	11	1,10,000	08	80,000
ST	0	----- -	0	----- -	0	----- --	0	-----
BC	12 8	10,24,00 0	11 5	9,20,000	98	7,84,000	76	6,08,000
EBC	14 2	11,36,00 0	11 9	9,52,000	10 1	8,08,000	79	6,32,000
MINORITY	14	1,40,000	10	1,00,000	08	80,000	06	60,000
OTHERS								
TOTAL	30 2	24,80,00 0	25 9	21,22,00 0	21 8	17,82,00 0	16 9	13,80,00 0

5.1.3 What percentage of students receive financial assistance from state government, central government and other national agencies?

More than ninety percent of students admitted into the Institution through Convener Quota receive scholarships. Some of the students receive scholarships and financial aid from different Social Service Organizations and philanthropist Trusts and individuals. Following are the details of Scholarships and Financial Aid received from such

NAAC - SELF STUDY REPORT

organizations

Category	2015-16		2014-15		2013-14		2012-13	
	Number	Amount	Number	Amount	Number	Amount	Number	Amount
		Rs.		Rs.		Rs.		Rs.
Government – SC Corporation	237	1,09,47,400	223	90,97,100	200	72,47,500	193	65,57,000
Government – ST Corporation	12	6,07,200	11	5,13,200	14	4,71,900	18	5,97,300
Government – BC Welfare Commission	714	2,56,11,000	650	2,30,34,000	592	2,02,26,500	508	1,68,50,700
Government from EBC Commission	820	2,73,24,600	764	2,71,16,000	613	2,13,52,000	417	1,38,83,300
Government – MINORITY Commission	127	44,45,000	112	38,66,500	94	31,83,500	65	21,68,300
TOTAL	1910	6,89,35,200	1760	6,36,26,800	1513	5,24,81,400	1201	4,00,56,600

5.1.4 What are the specific support services/facilities available for

- Students from SC/ST, OBC and economically weaker sections.
- Students with physical disabilities.
- Overseas students.

NAAC - SELF STUDY REPORT

- Students to participate in various competitions/National and International.
- Medical assistance to students: health centre, health insurance etc.
- Organizing coaching classes for competitive exams.
- Skill development (spoken English, computer literacy, etc..)
- Support for “slow learners”.
- Exposures of students to other institution of higher learning/ corporate/business house etc.
- Publication of student magazines.

The Management has created elaborate facilities to the students belonging to downtrodden groups of the society along with differently abled students.

Following is a brief summary of different facilities made available to such students.

Students from SC/ST,OBC and economically weaker sections:

Apart from these students receiving fee reimbursement and financial aid in the form of scholarships from the Government, the Institution on their own extends fee concession in transport, payment of special fees, Hostel fees, providing college uniforms, sportswear and equipment.

Special Classes and guidance have been extended to these category students who are weak in their studies by conducting coaching classes. They are given special attention by the faculty to clear any backlogs in their studies.

Students with physical disabilities:

Differently abled students are provided with special amenities in the institution such as :

- Providing railings besides steps.
- Providing ramp to the steps.
- Providing special toilet facilities.
- Providing rooms in the ground floor in hostels.
- Providing rooms in ground floor for class rooms

Overseas Students:

No overseas students have been admitted so far in the institution as it requires special permission from the University as well as the Government.

Students to participate in various competitions/National and International:

Faculty and the Principal always encourage students to participate in the National Events conducted by various Institutions in India. Following are the details of events and the number of students participation.

NAAC - SELF STUDY REPORT

S.No	Branch	Year	Event and organization	Number of Students Participated	Prizes and Awards
1	C S E	2014	Android Applications.	1	Secured 2 nd Prize
			QUIZ competition.	3	Secured 1 st Prize
			Paper presentation	4	Secured 1 st Prize, Secured 2 nd Prize
			Ad-Making	1	Secured 3 rd Prize
			Poster Presentation	1	Secured 1 st Prize
2		2015	Cruize Competition	2	Secured 3 rd Prize, Secured 1 st Prize
			web wizard competition	1	Secured 1 st Prize
			technical quiz	1	Secured 2 nd Prize
			Paper presentation	1	Secured 2 nd Prize
			Skill Adda Coding	1	Secured 1 st Prize
			Cracked Spot-Software Contest	1	Secured 1 st Prize
			Technical Quiz	1	Secured 1 st Prize
			Web-Wizards (Web Programming).	1	Secured 1 st Prize
			C-Programming Contest event	1	Secured 1 st Prize
			Cracked Technical quiz	1	Secured 2 nd Prize
3	2016	C-Programming Contest in National level Student Technical Symposium	1	Secured 1 st Prize	
		Paper Presentation	1	Secured 2 nd Prize	
		Website- Design	1	Secured 1 st Prize	
		Developing specified website modules	1	Secured 1 st Prize	
			Paper presentation	1	Secured 1 st Prize

NAAC - SELF STUDY REPORT

			Cracked programming contest	1	Secured 1 st Prize
			spot software contest	3	Secured 1 st Prize, Secured 2 nd Prize, Secured 3 rd Prize
			Paper presentation	2	Secured 1 st Prize, Secured 2 nd Prize
1	I T	2016	Management using IOT	2	Secured 1 st Prize
			Technical Quiz	3	Secured 1 st Prize
			Power Point Presentation	1	Secured 1 st Prize
1	E C E	2014	Project Expo	1	Secured 1 st Prize
			Power Point Presentation	1	Secured 2 nd Prize
			Circuit Designing and Debugging	1	Secured 2 nd Prize
			Circuit Mania	2	Secured 1 st Prize, Secured 2 nd Prize
2	E C E	2015	Robo Race	1	Secured 1 st Prize
			ROBO-ZEST 2015	1	Secured 1 st Prize
3	E C E	2016	Project Expo	2	Secured 1 st Prize, Secured 1 st Prize
			Adventure Robot Competitions	8	ALL Secured 1 st Prize.
			Circuitrix	1	Secured 2 nd Prize
			Tech Trix	1	Secured 2 nd Prize
			Robo War	1	Secured 1 st Prize
			Project Expo	1	Secured 1 st Prize
			Mobile Control Robotics	1	Secured 1 st Prize
			Mouse Trap Racer	1	Secured 2 nd Prize
Yantrora	1	Secured 1 st Prize			
1	MECH	2015	Fastest Auto Cad	1	Secured 2 nd Prize
			Black & White	1	Secured 3 rd Prize
2	MECH	2016	Srujana'16	1	Secured 1 st Prize
			Lakshya-2K16	1	Secured 1 st Prize
1			Dance Solo	1	Secured 1 st Prize
			Soccer League	1	Secured 1 st Prize
			Project Expo	1	Secured 1 st Prize

NAAC - SELF STUDY REPORT

	EEE	2014	Robotics	1	Secured 1 st Prize
			Robo Soccer	1	Secured 1 st Prize
			Robo Duels	1	Secured 1 st Prize
			Project Expo	1	Secured 1 st Prize
			Poster Presentation	1	Secured 2 nd Prize
			Paper Presentation	1	Secured 2 nd Prize
			RoboTerrian Trackers	1	Secured 2 nd Prize
			Tech Trix	1	Secured 2 nd Prize
		2		2015	Project Expo
			Robo Soccer	1	Secured 2 nd Prize

- The Institution provides financial assistance to students to prepare projects and models to participate and compete in the National level competitions.
- The Institution provides financial assistance to students and the accompanying staff for travelling and living expenses to participate in the competitions.
- If any student won any prize in any of these national events, the college honors such students at the College Day Celebrations with a memento and cash prize.
- Students participated in the national level cultural competitions and won many prizes. Vinay Kumar of II ECE-B and K. Swarna Sree of IV CSE-B are the students who participated in such national events and were recorded in the Limca Book of Records.

Medical assistance to students: health centre, health insurance etc:

- The institution is having a MoU with some of the multi-specialty hospitals such as AAYUSH Hospitals, Vijayawada, Royal Orthopaedic Hospital, Vijayawada for the extending medical assistance to students and staff.
- A vehicle with driver is kept ready 24 x 7 to meet the emergency exigencies at hostels .
- The college maintains First-aid kit in the Office and departments, However one lady staff by name Mrs.V. Kalyani is kept in-charge of girl students to meet any medical requirements.
- One Psychiatrist is invited every year to give counseling to students
- Medical Camps for health checkup are conducted periodically to assist students for their medical problems.
- Dental and eye camps are conducted with the help of Lion's Club of Vijayawada Vision every year.

NAAC - SELF STUDY REPORT

- The NSS wing of the College, Conducts Blood donation camps with the help of Red Cross and Loin's Club International and it is a regular activity in the College.

Organizing coaching classes for competitive exams:

- The institution is providing special coaching for competitive examination such as GATE, CAT, GRE, TOFEL, IELTS and GMAT etc.
- The institution provides special coaching through its Training and Placement Cell in English Language, Comprehension, Analytical abilities, Group Discussions, Mock Competitive exams, Mock interviews etc.
- The Placement cell also gives coaching in basic computer programming and knowledge in various other fields.
- A special wing in the library has been created for keeping latest books to prepare for competitive examinations.
- Students are provided with free Wi-Fi facility to gather information relating to job market and to prepare for the competitive examinations.
- The College Library is kept open to students from 9.00 am to 8.00 pm to make them prepare online for the competitive examinations.

Skill development (spoken English, computer literacy, etc...)

- Right from the admission every student is encouraged to converse in English language with teachers and among themselves.
- From the second year (3rd Semester) onwards soft skills such as communicative skills through audio visual equipment, PowerPoint presentation and interactive training sessions are imported
- Arithmetic Aptitude by imparting fundamental concepts and practical exercises.
- Logical and critical reasoning skills through in-house designed and developed curriculum prepared by the Training and Placement Cell.
- Additional computer skills such as Web-Technologies, MS Office etc. are imparted to students by the concerned faculty.

Support for “slow learners”:

As this is a rural based Engineering College and the students are mostly from background with regional language schooling .Most of the students are “slow learners”. This has been recognized by the institution right from the inception. Keeping this in view the Management shows special care for those slow learners.

Following are some of the measures taken by the Institution in this regard

- Extra Classes for these students are arranged beyond the college hours.

NAAC - SELF STUDY REPORT

- Special coaching classes are arranged on Sundays and holidays for those who wish to have coaching in a particular subject. Each class has been divided into groups of 15 students and a teacher is made in-charge of them. It is the duty of that teacher to monitor those students regarding their progress in class besides their behavior and character.

Publication of student magazines:

- The College publishes newsletters frequently. A student club known as “Public Relations Society” is set up in the campus through which students are encouraged to post their ideas.
- Teachers encourage students to write and publish articles in the magazines that are published by other colleges.

5.1.5 Describe the efforts made by the institution to facilitate entrepreneurial skills, among the students and the impact of the efforts.

The institution has created a separate cell, known as, ‘Entrepreneurship Training Cell’ with Sri B. V. S. Prasad, Faculty of Training and Placement Cell as Co-ordinator to Inculcate, encourage and help the students in entrepreneur skills.

Every year there will be two or three workshops conducted by bringing the experienced entrepreneurs and innovators.

For the last four years, batches of budding entrepreneurs are taken to the work shop conducted by IIT, Kharagpur by Sri B. V. S. Prasad.

Following are the details of the workshops conducted and workshops attended by the students.

S.No	Year	Event and organization	Place	Number of Students Participated
1	20 October 2013	Entrepreneurship Awareness Drive (EAD-13)	Tummalapali Auditorium, Vijayawada	1000
	January 12,13 and 14, 2014	Global Entrepreneurship Summit (GES-14)	IIT, Khargpur	80
	March 8, 2014	Start Up Saturday	NRIIT Campus	150

NAAC - SELF STUDY REPORT

2	March, 2015	A three day workshop to create awareness on entrepreneurship	NRIIT Campus	100
	January 13 and 14 and 15, 2015	Global Entrepreneurship Summit (GES-15)	IIT, Khargpur	80
3	February 27, 2016	Startup India- Workshop on entrepreneurial skills	NRIIT Campus	125
	January 14,15 and 16 2016	Global Entrepreneurship Summit (GES-16)	IIT, Khargpur	80
4	8 March 2017	One Day Workshop on Developing Women Entrepreneurs	NRIIT Campus	200

5.1.6 Enumerate the policies and strategies of the institution which promote participation of students in extracurricular and co-curricular activities such as sports, games, Quiz competitions, debate and discussions, cultural activities

- Students are encouraged to participate in extracurricular activities, games and sports and cultural activities conducted in the college as well as competitions conducted anywhere in India. For this purpose the college offers special coaching in various sports and cultural activities.
- It is mandatory for the NSS volunteers to participate in the social activities and NSS camps conducted by the college at rural areas.
- The college conducts intra mural competitions in sports and games, fine arts and cultural competitions and award prizes.
- Various Clubs are formed to encourage students to participate. A list of such Clubs is furnished here below.
- Students who participate in any event outside the Institution is given special leave / permission with attendance.
- Deffered internal examinations are conducted for such students.
- Lab experiments and examinations are conducted separately for these students.

NAAC - SELF STUDY REPORT

S.No	Name of the Club	No of Activities 2016-17	In-Charge	Number of Participants
1	TECHINODE	6	Ms. T. Vijaya Sri , Ms I.Datta Sravani	153
2	STUDENT'S ACTION CENTRE	2	Dr. K.V. Sambasiva Rao	123
3	LITERARY AND DEBATING CLUB	2	Mrs. Y. Madhavi , Mrs. M. Anuradha	45
4	CULTURAL CLUB	2	Dr. D. Kailasa Rao	236
5	GALILEO CLUB	1	Dr. M.V.N Sarma	24
6	RAMANUJAN CLUB	2	Mr. M. Srinivasulu	18
7	SPORTS CLUB	2	Mr. P. Gowtu	128
8	PUBLIC RELATIONS SOCIETY	Published one	Mr. S. Sriharsha , Mrs. T. Sreelatha	12

5.1.7 Enumerating on the support and guidance provided to the students in preparing for the competitive exams, give details on the number of students appeared and qualified in various competitive exams such as UGC-CSIR- NET, UGC-NET, SLET, ATE / CAT / GRE / TOFEL / GMAT /Central /State services, Defense, Civil Services, etc.

As stated above, the College has created a separate cell known as Training and Placement cell. The task of giving necessary coaching and necessary training has been assigned to this cell. This cell conducts the following coaching and training classes to the students right from their time of joining the college.

- Training in spoken English is imparted through software specially bought for the purpose.
 - a. Gloabarina Technologies Ltd., developed English Lab.
 - b. A. P. State Council of Higher Education developed Foundation Course in Communication Skills.
- Mock tests are conducted in spoken skills in the class rooms.
- Group discussions are very common in the college.
- Material required for preparation of UGC-CSIR, NET, UGC-NET,

NAAC - SELF STUDY REPORT

SLET, ATE, CAT and GRE are kept in the library.

- Internet is provided in the Library to the students to practice online tests in these examinations.

Following table shows the strength of students qualified in different competitive examinations:

Students Selected in GATE / GRE / TOFEL / MAT etc.

Course Academic year	CIVIL	MECH	CSE	ECE	EEE	IT
2015-16	1	4	8	2	8	5
2014-15	3	4	3	-	6	4
2013-14	-	-	-	-	7	2
2012-13	-	-	-	-	8	

5.1.8 What type of counselling services are made available to the students (academic, personal, career, psycho-social etc?)

Academic Counselling:

Each class has been divided into groups of 15 -20 students. One teacher mentor is made in-charge of each group. The concerned teacher mentor meets the group and individually each student to counsel them regularly. In case any student is backward in any subject, the concerned teacher mentor arranges for special tutorial with the teacher concerned. It is the duty of the in-charge teacher to regularly contact the parents of his group and apprise them about the progress of his ward.

Personal Counselling:

Each class/Section has a In-charge teacher. All the in-charge teachers are formed into a group in each branch to give personal counseling to students. All the personal problems with regard to college in general, his friends, any teacher or teaching in particular, family problems, problems he/she facing in coming to the college, family related problems, health issues etc. may be brought to this expert group who

NAAC - SELF STUDY REPORT

help them to solve the problem or give advises to overcome such problems.

Panel of Counselling In-charges.

S.NO	CLASS and SECTION	IN-CHARGE
1	Civil IV Section-A	Mr. CH. VEEROTTAM KUMAR
2	Civil IV Section-B	Mr. N. MADHAVA
3	Civil III Section-A	Mr. K. BHASKARA RAO
4	Civil II Section-A	Mr. B. UDAY SANKAR
5	Civil II Section-B	Mrs. R. HEMASRI PHANINDRA
6	ECE IV Section A	Mr. B.Y. GOPINATH
7	ECE IV Section B	Ms. P.B. SUDHA RANI
8	ECE IV Section C	Mr. M. SUNEEL
9	ECE III Section A	Mr. D. RAVI SHANKAR
10	ECE III Section B	Mr. G. SRINIVAS BABU
11	ECE III Section C	Mr. V. SRINIVASA RAO
12	ECE II Section A	Mr. P. VENU GOPAL
13	ECE II Section B	Mr. N. SRIKANTH
14	ECE II Section C	Mr. M.S.S.S. SRINIVAS
15	EEE IV	Mr. I. PRASANNA KUMAR
16	EEE III	Mrs. P.BHAVANI
17	EEE II	Mr. R. RAGHUNADHA SASTRY
18	CSE IV Section A	Mrs. P.V. ANUSHA
19	CSE IV Section B	Mr. M.V.N. UMAMAHESWARA RAO
20	CSE IV Section C	Mrs. M. ARUNA
21	CSE III Section A	Mr. P. NARENDRA BABU
22	CSE III Section B	Mr. G. KARUNAKAR
23	CSE III Section C	Mrs. J. PRAVEENA
24	CSE II Section A	Mrs. S. SIVA LELLA
25	CSE II Section B	Mr. P. RAGHUVEER
26	CSE II Section C	Mrs. D. SUNEETHA
27	MECH IV Section A	Mrs. K. VIDHYA
28	MECH IV Section B	Mr. G.S.R.N. MALLESWARA RAO
29	MECH III Section A	Mr. K. MANI KUMAR
30	MECH III Section B	Mr. CH. NAVEEN KUMAR
31	MECH II Section A	Mrs. K. ANUSHA
32	MECH II Section B	Mr. K.V. REDDY
33	MECH II Section C	Mr. N. SHYAM BABU
34	MCA III	Mr. K. CHANDRA MOULI

NAAC - SELF STUDY REPORT

35	MCA II	Mrs. K. UDAY SRI
36	MCA I	Mrs. L. KAVITHA

Carrer Counselling:

- The college has constituted a dedicated Department known as “Training and Placement Cell” that consists of English Faculty exclusively to impart Soft Skills for the students.
- Soft Skill Training programmes are regularly conducted right from the time of joining the Institution.
- Slots are allotted within the regular time table.
- Training & Placement Cell regularly conducts group discussions, just a minute (JAM) and orientation and training programmes for the students.
- Mock interviews are conducted to prepare them for placement and to face the interviews.
- The college has established a Communication Skills Lab. The lab helps to improve the communication skills of students.
- The Training and Placement cell customizes the course structure according to the needs of the placement company.

Psycho-Social Counselling:

5.1.9 Does the institution have a structured mechanism for career guidance and placement of its students? If ‘yes’, detail on the services provided to help students identify job opportunities and prepare themselves for interview and the percentage of students selected during campus interviews by different employers (list the employers and the programmes).

“YES” The College has a system to provide career guidance and placements through specially constituted Training and Placement Cell. A group of Placement Officers are assisted by group Soft skills trainers who impart skills pertaining to arithmetic aptitude, critical and logical reasoning, oral and written communicative skills in English and additional technical support in terms of imparting computer related skills.

The main activities of training and placement cell are:

- In-house training
- Mock recruitment process

In-house Training:

Following in-house training is imparted to students

- Team Plying Skills

NAAC - SELF STUDY REPORT

- Leadership Skills
- Motivation Skills
- Problem solving skills
- Analytical Skill
- Interpretation and perception skills
- Decision Making Skills
- Prioritization and Time Management Skill
- Creative Skills
- Crisis Management Skills

Mock Recruitment Process:

To train the students ready to face recruitment process the Training and Placement cell train them by conducting

- Online practice test
- Group discussions
- JAM (Just a Minute)
- Mock interviews
- Case study practice
- Picture Perception
- Essay writing
- Psychometric
- Resume Writing

List of Companies Visited and students placed in Placement Drives (2015-2016)

S.NO	COMPANY	SELECTED
1	TECH MAHINDRA	29
2	HEXAWARE TECHNOLOGIES	24
3	INFOSYS	9
4	WIPRO	2
5	MPHASIS	4
6	NTT DATA	2
7	SLK SOFTWARE	4
8	TCS	12
9	TECH TAMMINA PVT. LTD.	14
10	CMS	72
11	UX REACTOR	3
12	SYNTEL	5
13	FLEXIWARE SOLUTIONS	9
14	GOOD THROUGH	6
15	GEMINI COMMUNICATIONS	11
16	NETAFIM INDIA LTD.	9
17	RETAILON	7
18	VEE TECHNOLOGIES	32

NAAC - SELF STUDY REPORT

19	ACCEL FRONTLINE GLOBAL IT SERVICES	3
20	RASTER ENGINEERS	4
21	JAIN IRRIGATIONS SYSTEMS LTD.	13
22	MEDPLUS	14
23	AGS HEALTH CARE	14
24	RAMTECH CORP	10
25	JSKILZ	17
26	CADSYS	8

List of Companies Visited and students placed in Placement Drives (2014-2015)

S.NO	COMPANY	SELECTED
1	TECH MAHINDRA	34
2	ATOS	18
3	VALUE LABS	5
4	SUTHERLAND GLOBAL SERVICES	13
5	NTT DATA	2
6	INFOSYS	4
7	VIRTUSA	3
8	MPHASIS	2
9	DIGITAL JUICE	1
10	WIPRO	8
11	EIDER MOTORS	1
12	EFFTRONICS	1
13	KNOAH SOLUTIONS	3
14	MIRACLE SOLUTIONS	1
15	CSS CORP	2
16	CADEPLOY	5
17	ELICO	22
18	TCS	2
19	LG SOFT	1
20	TPCIL	1
21	ECLERX	10
22	CADSYS	4
23	ZEN3	5
24	TATA BSS	3
25	SYNTEL	11
26	INPLENION	2
27	MEDICO	11
28	AGS HEALTH	24

NAAC - SELF STUDY REPORT

Placements in 2015-16 ----- 341
Placements in 2013-14 ----- 164

Placements in 2014-15 ----- 199
Placements in 2012-13 ----- 303



UXRector Selected 3 Members and TechTammina Selected 13 Members



SLKDATA Selected 10 Members



SLKDATA Selected 1 Member and INFOSYS Selected 9 Members

NAAC - SELF STUDY REPORT



NTTDATA Selected 1 Member and MPHASIS Selected 4 Members

ఎన్ఆర్ఐలో ప్రాంగణ ఎంపికలు

పోతవరప్పాడు (ఆగరివల్లి) : మండల పరిధిలోని పోతవరప్పాడు ఎన్ఆర్ఐ ఇంజనీరింగు కళాశాలలో అచ్యుతా బాబ్బు తెచ్చిన పెక్టీవేర్ సొల్యూషన్స్ ప్రైవేట్ లిమిటెడ్ సంస్థ ఆధ్వర్యంలో గురువారం క్యాంపస్ ఇంటర్వ్యూలు జరిగాయి. కళాశాల చైర్మన్ ఆర్.వెంకట్రావు, ప్రెసిసిపాల్ సి.నాగబాస్కర్ మాట్లాడుతూ పీఐఐ కంప్యూటర్ సైన్స్, ఐటీ, ఎంసీఏఐ తెచ్చిన 70 మంది విద్యార్థులు పాల్గొన్నారు. రాత పరీక్షల్లో 45 మంది విద్యార్థులు అర్హత సాధించారని, అనంతరం నిర్వహించిన టెక్నికల్, మానవ వనరుల ఇంటర్వ్యూలో 9 మంది అర్హత సాధించారు. 9 మందికి ఉపాధి అవకాశాలు లభించారని



ఎంపికైన విద్యార్థులతో కళాశాల యూజమాన్యం
కళాశాల కార్యదర్శి కె.శ్రీధర్ తెలిపారు. విద్యార్థులను కళాశాల సిబ్బంది ఆదరించారు.

లారన్సాబ్స్ తో ఎన్నారై ఫార్మస్ కళాశాల ఒప్పందం

పోతవరప్పాడు(ఆగరివల్లి), న్యూస్టుడే: స్థానిక ఎన్నారై ఫార్మస్ కళాశాల విద్యార్థులకు ఐంటర్నల్ అవకాశం కోసం హైదరాబాద్ కు చెందిన లారన్సాబ్స్ తో అవగాహన ఒప్పందం కుదిరినట్లు కళాశాల ప్రెసిపాల్ వైపి రాధరి తెలిపారు. ఈ సందర్భంగా కళాశాలలో జరిగిన కార్యక్రమంలో లారన్సాబ్స్ ఎగ్జిక్యూటివ్ చైర్మన్ రవికుమార్ పార్థివణ్ విధానాలకు అనుగుణంగా వైఫల్యాలు పెంపొందించుకునేలా విద్యార్థుల ఆలోచనా విధానంలో మార్పు రావాలని తెలిపారన్నారు. ఐంటర్నల్ ద్వారా పరిశ్రమ అవసరాలకు అనుగుణంగా పనిచేసే విధానం అవగాహన కలుగుతుందని, పరిశ్రమల అవసరాలకు తగిన పరిష్కారాన్ని అలవరచుకోవాలని విద్యార్థులకు అడుగు మూవించారన్నారు. కార్యక్రమంలో కళాశాల చైర్మన్ ఆర్.వెంకట్రావు, లారన్సాబ్స్ హెచ్ఆర్ఐ సి.నరసింహారావు, బి.రామకృష్ణ విద్యార్థులు పాల్గొన్నారు. ప్రెసిపాల్ నేతృత్వంలో



ఎంపికైన విద్యార్థులతో కళాశాల చైర్మన్ వెంకట్రావు తదితరులు

ప్రాంగణేతర ఎంపికల్లో 16 మందికి ఉద్యోగాలు

పోతవరప్పాడు(ఆగరివల్లి), న్యూస్టుడే: స్థానిక ఎన్నారై ఇంజనీరింగ్ కళాశాలలో ఢిల్లీలోని గుర్గావ్ కు చెందిన టెక్నికల్ సంస్థ నిర్వహించిన ప్రాంగణేతర ఎంపికల్లో 16 మంది విద్యార్థులు ప్రతిభ చాటారు. చైర్మన్ ఆర్.వెంకట్రావు, ప్రెసిపాల్ సి.నాగబాస్కర్లు బుధవారం తెలిపారు. ఈ నియామకాల్లో జిల్లా లోని వివిధ కళాశాలలకు చెందిన 125 మంది విద్యార్థులు హాజరయ్యారన్నారు. రాత బృంద పరీక్ష పోటీకి పరీక్షల్లో తుదిగా 16 మంది ఎంపికైనట్లు వారు పేర్కొన్నారు. కార్యక్రమంలో కళాశాల ప్రాంగణ ఎంపికల అధికారి జి.ఎద్దుర్తరాజు, విభాగాధిపతులు తదితరులు పాల్గొన్నారు.

ముగ్గురు విద్యార్థులకు ఉద్యోగాలు



విద్యార్థులకు ద్రువపత్రాలను అందిస్తున్న కళాశాల చైర్మన్

నూజివీడు గ్రామీణం, న్యూస్టుడే: ప్రాంగణ ఎంపికల్లో తమ కళాశాలకు చెందిన ముగ్గురు విద్యార్థులకు మద్రాసు లోని ఎన్ఎస్ఐఎస్ కంపెనీలో ఉద్యోగాలు లభించినట్లు ఎన్నారై కళాశాల చైర్మన్ ఆర్.వెంకట్రావు తెలిపారు. పరీక్షలలోని కేవల యూజిలో 26, 27 తేదీల్లో ఎన్ఎస్ఐఎస్ ప్రాంగణేతర ఎంపికలను నిర్వహించిగా కంప్యూటర్ సైన్స్ విభాగం నుంచి పృజన, కళ్యాణ్, రమ్య దుర్గ ఉద్యోగాలు పొందినట్లు చెప్పారు. ప్రెసిపాల్ సి.నాగబాస్కర్, కార్యదర్శి కె.శ్రీధర్ లు విద్యార్థులను ఆదరించారు. కార్యక్రమంలో ఉపాధి కల్పనాధికారి శ్రీహరి పాల్గొన్నారు.

ఎన్నారై విద్యార్థులకు ఉపాధి అవకాశాలు



ఎయిడెన విద్యార్థులను అణచివేస్తున్న చైర్మన్ తదితరులు

పోతవరపాడు(ఆగిరిపల్లి), న్యూస్టుడే: స్టేడిక ఎన్నారై కళాశాలకు చెందిన 9 మంది విద్యార్థులు 'ఇన్స్ సెస్'లో ఉపాధి అవకాశాలు పొందినట్లు చైర్మన్ ఆర్ వెంకట్రావు తెలిపారు గుంటూరు 'కెన్స్' ఇంటర్నెటింగ్ కళాశాలలో ఈ నెల 8 నుంచి 11 వరకు ఇన్స్ సెస్ నిర్వహించిన ప్రాంగణోత్సవ ఎంపికల్లో విద్యార్థులు ఎంపిక కాగా ఈ మేరకు మంగళవారం ఉత్సర్గులు అందినట్లు ఆరసన పేర్కొన్నారడ అయినతో పాటు ప్రెస్టెంట్ సి నాగభాస్కర్ ఏవో మాదవరావు, ప్రెస్టెంట్ ఆదికారి రవి తదితరులు ఎంపికైన విద్యార్థులను అణచివేసినట్లు తెలుస్తోంది.

ఎన్నారై కళాశాలకు 'ఎ' గ్రేడు

పోతవరపాడు(ఆగిరిపల్లి), న్యూస్టుడే: రాష్ట్ర ప్రభుత్వం సూత్రంగా ప్రవేశపెట్టిన ఇంటర్నెటింగ్ కళాశాల గ్రేడింగ్ విధానంలో స్టేడిక ఎన్నారై ఇంటర్నెటింగ్ కళాశాలకు 'ఎ' గ్రేడు గుర్తింపు లభించినట్లు కళాశాల ప్రెస్టెంట్ సి.నాగభాస్కర్ తెలిపారు. కాడి నాడ జేఎన్టీయూ పరిధిలోని 198 అనుబంధ కళాశాలల్లో 47 కళాశాలలకు 'ఎ' గ్రేడు గుర్తింపు లభించినట్లు ఆయన పేర్కొన్నారు. జిల్లాలోని 28 కళాశాలల్లో 9 కళాశాలలకు 'ఎ' గ్రేడు లభించగా అందులో ఎన్నారై ఒకటని ఆయన తెలిపారు. కళాశాల స్థాపించిన సంవత్సరం నుంచి విద్యావిషయాలు, పలితాలు, క్రమశిక్షణ, మౌలిక వసతుల కల్పన, ప్రాంగణ ఎంపికల్లో పొందిన కృషికిగాను 'ఎ' గ్రేడు గుర్తింపు లభించినట్లు ఆయన తెలిపారు. కళాశాలకు లభించిన ఈ గుర్తింపులో కళాశాల కార్యదర్శి, కలెక్టర్, డి.ఎం.ఆర్, ప్రెస్టెంట్ సి.నాగభాస్కర్, ఉపాధ్యాయ, ఉపాధ్యాయ తర సిబ్బంది కృషి ఎంతో ఉందని కళాశాల వ్యవస్థాపక చైర్మన్ ఆర్.వెంకట్రావు తెలిపారు. ఈ మేరకు వారిని, విద్యార్థులను ఆయన అభినందించారు.

ఇంటర్నెటింగ్ కళాశాలలకు గ్రేడుల కేటాయింపు

* రెండు తిట్లలోని 94 కళాశాలల్లో 60% స్థానం * ఏ గ్రేడులో 16 కళాశాలలు

ప్రతిపాడు, న్యూస్టుడే : రాష్ట్రంలోని ఇంటర్నెటింగ్ కళాశాలలకు గ్రేడుల కేటాయింపు అయిపోయింది. అందులో గుంటూరు, కృష్ణా తిట్లలోని 60 ఇంటర్నెటింగ్ కళాశాలలకు ఏ.ఎ.సి.టి.గ్రేడులు లభించాయి. రెండు తిట్లలోని 16 కళాశాలలకు 'ఎ' గ్రేడు లభించింది. ఈ ప్రాంతంలోని మిగిలి 94 కళాశాలలకు అయిపోయింది గ్రేడులు లభించినట్లు తెలుస్తోంది. గ్రేడుల కేటాయింపు అయిపోయింది గుంటూరు, కృష్ణా తిట్లలోని 60 ఇంటర్నెటింగ్ కళాశాలలకు అయిపోయింది గ్రేడులు లభించినట్లు తెలుస్తోంది. గ్రేడుల కేటాయింపు అయిపోయింది గుంటూరు, కృష్ణా తిట్లలోని 60 ఇంటర్నెటింగ్ కళాశాలలకు అయిపోయింది గ్రేడులు లభించినట్లు తెలుస్తోంది.

నిర్ణయించిన కళాశాలలకు 'ఏ' గ్రేడు లభించింది. అయితే, రెండు తిట్లలోని 94 ఇంటర్నెటింగ్ కళాశాలలకు 'ఏ' గ్రేడులు లభించినట్లు తెలుస్తోంది. గుంటూరు, కృష్ణా తిట్లలోని 60 ఇంటర్నెటింగ్ కళాశాలలకు 'ఎ' గ్రేడులో ఉన్నాయి. మిగిలి 28 కళాశాలలకు 'బి', 'సి' గ్రేడులు లభించినట్లు తెలుస్తోంది. గుంటూరు, కృష్ణా తిట్లలోని 60 ఇంటర్నెటింగ్ కళాశాలలకు 'ఏ' గ్రేడు లభించింది.

రెండు తిట్లలో ఇంటర్నెటింగ్ గ్రేడులు కలిపి ఉన్నాయి...				
కృష్ణా గుంటూరు మొత్తం	ఎ	బి	సి	డి
16	1	11	3	1
60	16	12	2	4

అయితే, రెండు తిట్లలోని 94 ఇంటర్నెటింగ్ కళాశాలలకు 'ఏ' గ్రేడులు లభించినట్లు తెలుస్తోంది. గుంటూరు, కృష్ణా తిట్లలోని 60 ఇంటర్నెటింగ్ కళాశాలలకు 'ఏ' గ్రేడులో ఉన్నాయి. మిగిలి 28 కళాశాలలకు 'బి', 'సి' గ్రేడులు లభించినట్లు తెలుస్తోంది.

12మంది 'ఎన్ఆర్ఐ' విద్యార్థులకు ఉపాధి

పోతవరపాడు (ఆగరిపల్లి) : బహుళ జాతి సంస్థ టాటా కన్సల్టెన్సీ సర్వీసెస్ (టీసీఎస్) నిర్వహించిన ప్రాంగణోత్సవం ఇంటర్వ్యూలో పోతవరపాడు ఎన్ఆర్ఐ ఇంజనీరింగ్ కళాశాలకు చెందిన 12 మంది విద్యార్థులు ఎంపికయ్యారు. కళాశాల డైరెక్టర్ ఆర్.వెంకట్రావు, ప్రెసిడెంట్ సి.నాగభాస్కర్ తెలిపారు. గురువారం వారు విలేజ్ లలో మాట్లాడారు. ఈ సెల 18, 19 తేదీల్లో హైదరాబాద్ లో ప్రాంగణోత్సవం ఇంటర్వ్యూలు జరిగాయన్నారు. ఈ సెల 2న బీటెక్, కంప్యూటర్ సైన్స్, ఇంజనీరింగ్, ఎఐ, ట్రైపుల్ టెక్, మెకానికల్, ఎం.టి.ఎల్ విభాగాలకు చెందిన 41 మంది విద్యార్థులు రాత పరీక్షల్లో అర్హత సాధించారని చెప్పారు. అనంతరం హైదరాబాద్ లో నిర్వహించిన టెస్టింగ్, మానవ వనరుల ఇంటర్వ్యూలో 12 మంది విద్యార్థులు ప్రతిభను చాటి ఉపాధి అవకాశాలు పొందారు. కళాశాల కార్యదర్శి కె.శ్రీధర్ మాట్లాడుతూ నిర్వహించిన ప్రణాళికలో రోజువారీ ఆన్లైన్ పరీక్షలతో ఈ విజయం సాధ్యమైందని చెప్పారు. కళాశాల స్టేషన్ మెంట్ అధికారి శ్రీహర్ష విద్యార్థులను ఆదేశించినట్లు చెప్పారు.

ప్రాంగణ నియామకాల్లో ఎంపిక



ఉపాధి అవకాశాలు పొందిన విద్యార్థుల లభించినట్లు కళాశాల డైరెక్టర్ వెంకట్రావు

రామలింగ్ కన్సల్టెన్సీ నిర్వహించిన ప్రాంగణం ఎన్ఆర్ఐ 10మంది విద్యార్థులు ఉపాధి అవకాశాలు పొందినట్లు కళాశాల డైరెక్టర్ ఆర్.వెంకట్రావు ప్రెసిడెంట్ సి.నాగభాస్కర్ కలిసి తెలిపారు. ఫలితంగా కళాశాలలో నిర్వహించిన ఈ ఎంపికలో వెంకట్రావు సీనియర్ టీసీఎస్ విభాగాలకు చెందిన 120 మంది విద్యార్థులు పాల్గొనగా అది చరిత్రలో 10మంది ఎంపికైనట్లు పేర్కొన్నారు. ఈ సందర్భంగా ఉపాధి అవకాశాలు పొందిన విద్యార్థులను వారు ఆదేశించినట్లు చెప్పారు. కార్యక్రమంలో ఉపాధికర్తావధికారి ఎన్ శ్రీహర్ష అధికారి లాంఛన విధానం చేశారు.

'టెక్ మహేంద్రా'కు ఎన్ఆర్ఐ విద్యార్థుల ఎంపిక

పోతవరపాడు (ఆగరిపల్లి) : పోతవరపాడు ఎన్ఆర్ఐ ఇంజనీరింగ్ కళాశాలకు చెందిన 24 మంది విద్యార్థులకు టెక్ మహేంద్రాలో ఉపాధి అవకాశాలు లభించినట్లు కళాశాల డైరెక్టర్ ఆర్.వెంకట్రావు గురువారం తెలిపారు. ఈ సందర్భంగా ఆయన మాట్లాడుతూ కామరూప్ టీబీ సిద్ధార్థ ఇంజనీరింగ్ కళాశాలలో ఈ సెల 1, 2 తేదీల్లో టెక్ మహేంద్రా అధ్యక్షులచే నిర్వహించిన ప్రాంగణోత్సవం ఎంపికలో బీటెక్ అభి సంచిత్రాధుల వరుషరన్న సీఎస్.ఈ. ఈసీ.ఈ. ఈసీ.ఈ. సివిల్, మెకానికల్ విభాగాలకు చెందిన 230 మంది విద్యార్థులు పాల్గొన్నట్లు తెలిపారు. టెక్ మహేంద్రా కంపెనీ నిర్వహించిన రాత, సాంకేతిక, మానవ వనరుల, మోఖి కన్సల్టెన్సీ తమ



ఉపాధి అవకాశాలు పొందిన విద్యార్థులతో ఎన్ఆర్ఐ కళాశాల సిబ్బంది విద్యార్థులు 24 మంది ప్రతిభ చూపినట్లు పేర్కొన్నారు. ఉపాధి అవకాశాలు పొందిన విద్యార్థులను కళాశాల కార్యదర్శి కె.శ్రీధర్, ప్రెసిడెంట్ సి.నాగభాస్కర్, కళాశాల స్టేషన్ మెంట్ అధికారి శ్రీహర్ష తెలిపారు.



ఎంపికైన విద్యార్థులతో డైరెక్టర్ వెంకట్రావు, తదితరులు

ప్రాంగణం ఎంపికల్లో ప్రతిభ

పోతవరపాడు(ఆగరిపల్లి), న్యూనీటాడే: స్టాటిక్ ఎన్సైన్స్ ఇంజనీరింగ్ కళాశాలలో అభ్యుదాత్మికం చెందిన స్టాటిక్ సోల్యూషన్స్ ప్రైవేటు లిమిటెడ్ సంస్థ నిర్వహించిన ప్రాంగణం ఎంపికల్లో అభ్యుదయించిన విద్యార్థులు ఉపాధి అవకాశాలు పొందినట్లు కళాశాల ప్రెసిడెంట్ సి.నాగభాస్కర్ డైరెక్టర్ ఆర్.వెంకట్రావులు తెలిపారు. ఐదో గురువారం నిర్వహించిన కంప్యూటర్ సైన్స్ టెస్ట్ ఎంపిక ప్రాంగణంకు చెందిన 10 మంది విద్యార్థులు పాల్గొన్నట్లు వారు పేర్కొన్నారు. ఈ సందర్భంగా ఉపాధి అవకాశాలు పొందిన విద్యార్థులను వారు ఆదేశించినట్లు కార్యక్రమంలో ఉపాధి కర్తావధికారి ఎన్ శ్రీహర్ష ఎం వెంకట్రావు విధానం చేశారు. అధ్యక్షులను పేర్కొన్నారు.

NAAC - SELF STUDY REPORT

5.1.10 Does the institution have a student grievance redressal cell? If yes, list (if any) the grievances reported and redressed during the last four years.

- The College has established, as per AICTE norms, a grievance redressal cell for redressing day to day student grievances.
- The grievance expressed either in writing or oral to the members of the committee will be passed onto the Principal/Chairman. General issues related to class room teaching, library, e-sources, canteen, hostel, hostel mess & transportation resolved by the cell with the help of the Office. The composition of Grievance redressal Cell is given in following table

Name	Designation	Department	Status
Mr. CH. Srinivas	HOD	Civil	Co-ordinator
Mrs. R. Sunitha	DEAN	ECE	Member
Mr. M. Babu Prasad	HOD	S&H	Member
Mr. Dr .N. Sambasiva Rao	HOD	EEE	Member
Mr. MD. Rafi	HOD	Mechanical	Member
Mr. Dr. V. Suryanarayana Rao	HOD	CSE	Member
Mr. V. Sudhakara Rao	HOD	IT	Member
Mr. B. Mouleswara Rao	HOD	MCA	Member

All the grievances received are taken seriously and the committee together discusses the importance of the grievance and takes appropriate action accordingly. grievances reported and action taken.

S.No	Grievance Reported	Action taken
1	Malfunctioning of Equipment	Repair of Such Equipment
2	Non-Functioning of Fans and Lights in Class Rooms	Replaced them with New Ones

5.1.11 What are the institutional provisions for resolving issues pertaining to sexual harassment?

The college has a separate Women Grievance Cell that addresses the grievances of girl students and female staff members of both teaching and non-teaching.

The cell comprises one senior woman faculty member as a convener and one woman faculty member from each department as members

NAAC - SELF STUDY REPORT

and some non-teaching women employees. It is mandatory that the Principal has to initiate action on any complaint received from this committee.

The members of the cell are:

S.No	Name	Designation	Department	status
1	R .Sunitha	DEAN	ECE	Convener
2	T. SriLatha	HOD	T&P	Co-ordinator
3	Y. Madhavi	Asst.Prof	BS&H	Member
4	G. Krishna Priya	Asst.Prof	BS&H	Member
5	M.S. Swarna Pushpa	Asst.Prof	BS&H	Member
6	Sudha	Asst.Prof	BS&H	Member
7	Y. Arpitha	Asst.Prof	ECE	Member
8	P.B. Sudha Rani	Asst.Prof	ECE	Member
9	B. Swathi	Asst.Prof	ECE	Member
10	G. Lavanya	Lab Technician	ECE	Member
11	S. Parvathi	Lab Technician	ECE	Member
12	D. Sunitha	Assoc.Prof	CSE	Member
13	M. Aruna	Asst.Prof	CSE	Member
14	M Seshu Bhavani	Asst.Prof	CSE	Member
15	A .Sanjana	Programmer	CSE	Member
16	S. Bhavani	Asst.Prof	EEE	Member
17	M.A. Salma	Asst.Prof	EEE	Member
18	P. Neelima	Lab Technician	EEE	Member
19	M. Praveena	Asst.Prof	IT	Member
20	S .Nahida	Asst.Prof	IT	Member
21	A Sanjana	Programmer	CSE	Member
22	B.B. Zareena	Asst.Prof	CIVIL	Member
23	L. Sri Varsha	Asst.Prof	CIVIL	Member
24	K. Vidhya	Asst.Prof	MECH	Member
25	K. Anusha Raj	Asst.Prof	MECH	Member
26	P. Bharathi	Asst.Prof	MECH	Member
27	K. Udaya Sri	Asst.Prof	MECH	Member
28	N. Srisha	Asst.Prof	MECH	Member
29	V. Kalyani		OFFICE	Member

NAAC - SELF STUDY REPORT

There is a specific procedure for resolving any grievance. The following is the procedure:

- When a complaint is received by the cell, it conducts an inquiry to identify the gravity of the offence and the veracity of the complaint.
- Based on the evidences, the committee submits its report to the Principal for further action. But, so far no such incidents sofar.

5.1.12 Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?

An active Anti ragging Committee constituted, as per the guide lines of AICTE/ APSCHE, Government of Andhra Pradesh. The Chairman of the Committee is the Principal. Awareness regarding consequences of ragging are widely communicated to the senior students through special classes by senior students, conducting awareness meeting with officers of the Police Department. Students are instructed not to indulge in activities of ragging. Every year, a poster campaign in this regard is taken up before commencement of first year classes. Also caution boards are kept at prominent locations of the campus and the same is displayed in the notice board.

Chair Person: Prof. CH. NAGA BHASKAR, Principal

Members:

S.NO	NAME	DESIGNATION	DEARTMENT
1	Dr. K.V. Sambasiva Rao	DEAN	CSE
2	Dr. D. Kailasa Rao	PROFESSOR	BS&H
3	Dr. V. Surya Narayana	HOD	CSE
4	Smt. R. Sunitha	HOD	ECE
5	Dr. N. Sambasiva Rao	HOD	EEE
6	Mr. V. Sudhakara Rao	HOD	IT
7	Mr. D. Jaya Krishna	HOD	CIVIL
8	Mr. MD. Rafi	HOD	MECHANICAL
9	Mr. B. Mouleswara Rao	HOD	MCA
10	Mr. M. Babu Prasad	HOD	BA&H
11	Mr. U. Naresh	Hostel Warden	

STUDENTS REPRESENTATIVES:

S.NO	STUDENT NAME	DEARTMENT	YEAR	ROLL NO
1.	Ms. B. Megamala	ECE	IV	13KN1A0406
2.	Mr. J.A.R. Lakshman Kumar		IV	13KN1A0446
3.	Mr. K.V.S. Abhishek		III	14KN1A0453
4.	Ms. D. Pravallika Sai		III	14KN1A0429

NAAC - SELF STUDY REPORT

5.	Ms. B. Happy		II	15KN1A0417	
6.	Ms. J. Mounika		II	15KN1A0457	
7.	Mr. A. Surya Ram		I	16KN1A0450	
8.	Ms. B.L.L. Prasanna		I	16KN1A0412	
9.	Mr. P. Krishna Vamsi	EEE	IV	13KN1A0228	
10.	Ms. M. Harika		IV	13KN1A0220	
11.	Mr. N. Phani		III	14KN1A0223	
12.	Ms. J. Kreethi Priyanka		III	14KN1A0214	
13.	Mr. S. Sriraj		II	15KN1A0226	
14.	Ms. M. Krishnasri		II	15KN1A0228	
15.	Mr. R.J.s. Kasyap		I	16KN1A0232	
16.	Ms. CH. Srujana		I	16KN1A0208	
17.	Ms. CH. Anusha		CSE	IV	13KN1A0530
18.	Mr. K. Vijayanandh			IV	13KN1A0584
19.	Ms. R. Kavya	III		14KN1A0559	
20.	Ms. Jaya Durga	III		14KN1A05F0	
21.	Mr. A. Sai ram	II		15KN1A0508	
22.	Ms. M.S.V. D. Bhuvanewari	II		15KN1A05B0	
23.	Mr. Nitish Sai	I		16KN1A0523	
24.	Ms. Y. Yasantwini	I		16KN1A0560	
25.	Mr. CH. Ajay Kumar	IT	III	14KN1A1206	
26.	Ms. M. Nikila		III	14KN1A1221	
27.	Ms. A.Ramya		II	15KN1A1203	
28.	Mr. S. Surendra Reddy		II	15KN1A1247	
29.	Mr. P. Sai Tarun		I	16KN1A1235	
30.	Ms. P. Saraswathi		I	16KN1A1238	
31.	Ms. T. Bhagyasree	MCA	III	14KN1F0006	
32.	Mr. G.K. Narendra		III	14KN1F0002	
33.	Ms. CH. Venkata roja		II	15KN1F0002	
34.	Mr. S.Surya Prakash Rao		II	15KN1F0009	
35.	Ms. P.Kreethi		I	16KN1F0001	
36.	Mr. P.Gangadhara rao		I	16KN1F0002	
37.	Mr. K. Raju	MECH	IV	13KN1A0347	
38.	Mr. K.V.Revanth Kumar		III	14KN1A0308	
39.	Mr. D.M.V.S.M. Anatha Vijay		III	14KN1A0329	
40.	Mr. Biram Singh		III	14KN1A0317	
41.	Mr. G.Raghunadha Reddy		II	15KN1A0338	
42.	Mr. G. Siva Sai Kumar		II	15KN1A0341	
43.	Mr. Ch.Uddhav		I	16KN1A0310	
44.	Mr. B.Murali		I	16KN1A0304	

NAAC - SELF STUDY REPORT

45.	Mr. A. Rochishnu	CIVIL	IV	13KN1A0121
46.	Ms. M. Shashanka		IV	13KN1A0101
47.	Mr. A. Phani Arya		III	14KN1A0182
48.	Mr. K. Satish Babu		III	14KN1A0143
49.	Mr. B. Pavan Karthik		II	15KN1A0181
50.	Ms. C. Alekhya		II	15KN1A0102
51.	Mr. D. Govardhan		I	16KN1A0101
52.	Ms. KDVLLKSN Indu Priya		I	16KN1A0101
PARENTS: Sri Mr. P. Zameer Khan, Daughter of Miss. P.Afroz – IV- ECE , Roll no:13KN1A04B0				
LAW and ORDER: SI, Agiripalli.				
ADMINISTRATIVE OFFICER: Mr. N. Madhava Rao – Convener				

Anti Ragging Squads of the Institution:

Anti-Ragging Squads have been formed in the Institution. Each Floor In-charge is made a member of the anti-ragging squad.

The anti-ragging squad members and the committee members usually give counseling to both junior and senior students and to educate senior students about constitutional provisions for punishing the offenders. The students are informed orally and also supplied the material along with the Hand Book about the anti ragging actions that would be taken as per the latest UGC guidelines. Senior students and their parents submit a joint affidavit stating their knowledge about the provisions of the anti ragging act. This committee keeps continuous vigilance in all common areas, hostels, college buses etc. beyond college hours, to prevent the ragging incidents.

5.1.13 Enumerate the welfare schemes made available to students by the institution.

- Health service- First Aid Kit is available with the Office. The College has understanding with Multi Specialty Hospitals, viz., AAYUSH, Royal Hospitals Vijayawada who attend to the needs of both staff and students.
- A separate e- Service Office is created at the entrance of the College gate. Main function of this Office is to help students to apply for PAN Card, Passport, Aadhar Card, GRE, TOFEL, VISA Applications etc.
- A separate cell to facilitate the processing of applications and remittances of government scholarships.
- Stationary and reprography facilities are available within the campus.
- ATM facility
- Library is open during and after the college hours (9.00 A.M to 8 P.M)

NAAC - SELF STUDY REPORT

- Internet facility, Wi-Fi Connection in the campus and hostel
- Internet lab beyond working hours.

5.1.14 Does the institution have a registered Alumni Association? If ‘yes’, what are its activities and major contributions for institutional, academic and infrastructure development?

YES. The college has a registered Alumni Association. Alumni association was started in the year 2015. Its motive is to bring all the alumni to one platform ,so that they can share their experiences, extend their helping hand and provide guidance to the budding engineers of the college. All the passed out students of the college are members of the Alumni Association by default. At present the alumni has 145 active members.

The Alumni is spread around the globe and supports the college in various activities. Alumni meet is held at College once in a year.

Alumni contribute to the development of the college in the following ways:

- Feedback on all matters related to the college.
- Alumni members residing in various parts of India and abroad share their experiences with staff and students whenever they visit the institution.
- Alumni support placement activities of the students.
- A alumni extends their support by sponsoring various activities, including financial help to poor and deserving students in the college.

5.2 Student Progression

5.2.1 providing the percentage of students progressing to higher education or employment (for the last four batches) highlight the trends observed.

Branch	Batch	2012-13	2013-14	2014-15	2015-16
Civil	UG to PG	Nil	Nil	50	Nil
	PG to Ph.D.	Nil	Nil	1	Nil
	1. Employed Through Campus Placement 2. Other	Nil	Nil	25(CS) 65(O)	Nil

NAAC - SELF STUDY REPORT

	Than Campus recruitment				
	Total				
MECH	UG to PG	Nil	Nil	4	3
	PG to Ph.D	Nil	Nil	Nil	Nil
	3. Employed Through Campus Placement 4. Other Than Campus recruitment	Nil	Nil	6(CS)	38(CS)
	Total				
EEE	UG to PG	4	10	6	11
	PG to Ph.D.	Nil	Nil	Nil	Nil
	5. Employed Through Campus Placement 6. Other Than Campus recruitment	67(CS) 16(O)	60(CS) 6(O)	65(CS) 15(O)	78(CS) 9(O)
	Total				
ECE	UG to PG	2	3	5	5
	PG to Ph.D.	Nil	Nil	Nil	Nil
	1. Employed Through Campus Placement 2. Other Than Campus recruitment	34	72	90	87
	Total				
	UG to PG	2	3	4	3

NAAC - SELF STUDY REPORT

CSE	PG to Ph.D.	Nil	Nil	Nil	Nil
	1. Employed Through Campus Placement 2. Other Than Campus recruitment	4(O)	56(CS)	48(CS)	54(CS)
	Total				
IT	UG to PG	Nil	Nil	Nil	Nil
	PG to Ph.D.	Nil	Nil	Nil	Nil
	1. Employed Through Campus Placement 2. Other Than Campus recruitment	75	Nil	81	37
	Total				
MCA	UG to PG	Nil	Nil	Nil	Nil
	PG to Ph.D.	Nil	Nil	Nil	Nil
	1. Employed Through Campus Placement 2. Other Than Campus recruitment	Nil	20(CS)	24(CS) 3(OCS)	17(CS) 2(OCS)
	Total				

5.2.2 Provide details of the programme wise pass percentage and completion rate for the last four years (cohort wise/batch wise as stipulated by the university)? Furnish programme-wise details in comparison with that of the previous performance of the same institution and that of the Colleges of the affiliating university within the city/district.

Department	2012-2013	2013-2014	2014-2015	2015-2016
CIVIL	81.03%	66.12%	78.78%	72.18%
EEE	92.18%	88.57%	76.11%	75.0%
ECE	82.81%	81.15%	74.64%	87.32%

NAAC - SELF STUDY REPORT

CSE	83.33%	83.19%	73.18%	82.93%
IT	-----	76.36%	76.52%	60.0%
MECH	-----	-----	74.65%	72.80%
MCA	90.56%	-----	68.62%	62.50%

5.2.3 How does the institution facilitate student progression to higher level of education and/or towards employment?

- Outgoing students are encouraged to appear for the PG CET conducted by Government of AP.
- The College offers PG courses in all Engineering branches of the college.
- Continuous Placement training is imparted to all students.
- Pre-Placement Training classes are conducted to III and IV year students
- Online Assessment Tests are conducted for IV & III B.Tech students.
- Mock Tests are conducted basing on the placement company recruitment process.

5.2.4 Enumerate the special support provided to students who are at risk of failure and drop out?

- The Class Teacher identifies such students and arrange extra classes in that subject .
- Frequent conselling is conducted and they are specially covered
- Parents are being informed regarding the progress of the student frequently
- Personal counseling to student and parents is given to encourage them to continue studies. If required financial help in the form of fee reduction / waiver is given to them.
- The college also arranges doubt clarifying classes and peer teaching classes for the weak students.
- Counselling, promptly attending to the students emotional and health needs, continuous attendance shortage monitoring and communication of the same to parents/guardian to ensure that the students enrolled complete their courses successfully.

5.3 Student Participation and Activities

5.3.1 List the range of sports, games, cultural and other extracurricular activities available to students. Provide details of participation and program calendar.

NAAC - SELF STUDY REPORT

- Separate Physical Education Department is established. A full time Physical Education Qualified Teacher is appointed to train students in various sports and games.
- Physical Education teacher gives training in athletics as well as specialized sports and games and encourage them to participate in inter-collegiate and inter-university sports.
- Conduct activities that promote physical & mental fitness of students.
- Global sport events are celebrated in the college.

Sports & Games Facilities:

Games and Sports activities are looked after by the Department of Physical Education. That has sufficient infrastructure, facilities. The college has well developed playgrounds for various games and sports.

Activities:

Selection trials for both boys and girl students for picking up talented players for participation at Inter collegiate tournaments is an yearly feature of the college. Special training sessions are conducted to make them ready for participating in games and sports competitions.

Outdoor Games: Volleyball, Basketball, Tennis, Throw ball, Tennicoit, Kho-Kho courts are there in the college.

Literary and Cultural activities:

Literary and Cultural activities pertaining to Annual day and participation in other competitions are under the supervision of one teacher Dr. D. Kailasa Rao who has the experience in these activities for more than 35 years and who himself is a stage actor. Annual Literary and cultural activities are being organized during the period of November/December and March to April.

Participation of students at Intercollegiate Competitions

S.No	Department	Name of the Student	Award/Recognition	Event	Year
1.	CSE	N.Dinesh	Appreciation certificate	South Indian football at university of Kerala	2011-12
2.		D.Tejaswini	Participation Certificate	Handball tournament at Periyar, Salem,	2014-15

NAAC - SELF STUDY REPORT

3.		T.Ramya	Participation Certificate	Handball tournament at Periyar, Salem,	2014-15
4.		CH.Grashma Tinusha	Participation Certificate	Handball tournament at Periyar, Salem,	2014-15
5.		A. Lakshmi Kanth	Participation Certificate	Handball tournament at Periyar, Salem,	2014-15
6.	IT	Kasu Pratap Reddy	Participation	South Zone Inter University Handball Tournament	2013-2014
7.	MCA	B.Siva	Participation Certificate	air pistol tournament at inter university college competitions held at Duniya	2014
8.	ECE	M.Kiran Mounika	Swimming	University of Calcutta, Kolkatta	2010-11
9.		P.Bhargavi	Swimming	University of Calcutta, Kolkatta	2011-12
10.	ECE	M.Kiran Mounika	Swimming	University of Calcutta, Kolkatta	2011-12
11.		K.Radha Krishna	Basket Ball	Gudlavalleru Engineering College	2012-13
12.		G.Hruday Bhanu Reddy	Handball	Bharathidasan University, Tiruchirapalli.	2013-14

NAAC - SELF STUDY REPORT

13.	B.Lakshmi Kanth	Volley Ball	Gudlavalleru Engineering College	2014-15
14.	M.S.P.V.Niranjan	Archery	Punjab University, Patiyala	2015-16

NSS Activities:

The College has a separate NSS wing. Mr. V.M. Monoj of Department of Mechanical Engineering is the Programme Officer. Students are encouraged to join in NSS to serve the nation and society. Seven day special camps are conducted in nearby villages. Students in large number actively participate under the guidance of programme officer. Awareness regarding cleanliness, importance of education, health care and self help is given to villagers during the camp.

List of programmes conducted:

S.No	Duration of camp (days)	Name of the program	Number of participants
1	2	Blood Donation Camps	30
2	1	Campus Cleanliness Drive	25
3	2	Cloth Collection Drives	20
4		Adopted a School	
5	2	Fire-Fighting Camp	23
6	1	Plantation Drive	50
7	2	Medical Camp	30
8	2	Solar Light Workshop	30

5.3.2 Furnish the details of major student achievements in co-curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc. for the previous four years.

Students are encouraged to participate in various co-curricular, extracurricular and cultural activities that are conducted by the College as well as by other institutions within the state and outside the state. Our students have won many distinctions when participated in other institutions.

Co-curricular Activities

A List of events where our college students participated and won Prizes and cash prizes in other college fests and activities in technical events like paper presentation/technical quiz/poster presentation/

NAAC - SELF STUDY REPORT

coding is presented below:

Year	Department	Name of the event	No of students participated	No of students won prizes
2014	C S E	Android Applications.	1	Secured 2 nd Prize
	C S E	QUIZ competition.	3	Secured 1 st Prize
	C S E	Paper presentation	4	Secured 1 st Prize, Secured 2 nd Prize
	C S E	Ad-Making	1	Secure 3 rd Prize
	C S E	Poster Presentation	1	Secured 1 st Prize
2015	C S E	Cruise Competition	2	Secured 3 rd Prize, Secured 1 st Prize
	C S E	web wizard competition	1	Secured 1 st Prize
	C S E	technical quiz	1	Secured 2 nd Prize
	C S E	Paper presentation	1	Secured 2 nd Prize
	C S E	Skill Adda Coding	1	Secured 1 st Prize
	C S E	Cracked Spot-Software Contest	1	Secured 1 st Prize
	C S E	Technical Quiz	1	Secured 1 st Prize
	C S E	Web-Wizards(Web Programming).	1	Secured 1 st Prize
	C S E	C- Programming Contest event	1	Secured 1 st Prize
	C S E	Cracked Technical quiz	1	Secured 2 nd Prize
	C S E	C- Programming Contest in National level Student Technical	1	Secured 1 st Prize

NAAC - SELF STUDY REPORT

		Symposium		
2016	C S E	Paper Presentation	1	Secured 2 nd Prize
	C S E	Website-Design	1	Secured 1 st Prize
	C S E	Developing specified website modules	1	Secured 1 st Prize
	C S E	Paper presentation	1	Secured 1 st Prize
	C S E	Cracked programming contest	1	Secured 1 st Prize
	C S E	spot software contest	3	Secured 1 st Prize, Secured 2 nd Prize, Secured 3 rd Prize
	C S E	Paper presentation	2	Secured 1 st Prize, Secured 2 nd Prize
2016	I T	Management using IOT	2	Secured 1 st Prize
	I T	Technical Quiz	3	Secured 1 st Prize
	I T	Power Point Presentation	1	Secured 1 st Prize
2014	E C E	Project Expo	1	Secured 1 st Prize
	E C E	Power Point Presentation	1	Secured 2 nd Prize
	E C E	Circuit Designing and Debugging	1	Secured 2 nd Prize
	E C E	Circuit Mania	2	Secured 1 st Prize, Secured 2 nd Prize
2015	E C E	Robo Race	1	Secured 1 st Prize
	E C E	ROBO-ZEST 2015	1	Secured 1 st Prize
2016	E C E	Project Expo	2	Secured 1 st Prize, Secured 1 st Prize

NAAC - SELF STUDY REPORT

	E C E	Adventure Robot Competitions	8	ALL Secured 1 st Prize.
	E C E	Circuitrix	1	Secured 2 nd Prize
	E C E	Tech Trix	1	Secured 2 nd Prize
	E C E	Robo War	1	Secured 1 st Prize
	E C E	Project Expo	1	Secured 1 st Prize
	E C E	Mobile Control Robotics	1	Secured 1 st Prize
	E C E	Mouse Trap Racer	1	Secured 2 nd Prize
	E C E	Yantrora	1	Secured 1 st Prize
2015	MECH	Fastest Auto Cad	1	Secured 2 nd Prize
	MECH	Black & White	1	Secured 3 rd Prize
2016	MECH	Srujana'16	1	Secured 1 st Prize
		Lakshya-2K16	1	Secured 1 st Prize
2014	EEE	Project Expo	1	Secured 1 st Prize
	EEE	Robotics	1	Secured 1 st Prize
	EEE	Robo Soccer	1	Secured 1 st Prize
	EEE	Robo Duels	1	Secured 1 st Prize
	EEE	Project Expo	1	Secured 1 st Prize
	EEE	Poster Presentation	1	Secured 2 nd Prize
	EEE	Paper Presentation	1	Secured 2 nd Prize
	EEE	Robo Terrian Trackers	1	Secured 2 nd Prize
	EEE	Tech Trix	1	Secured 2 nd Prize
2015	EEE	Project Expo	1	Secured 1 st Prize
	EEE	Robo Soccer	1	Secured 2 nd Prize

5.3.3 How does the college seek and use data and feedback from its graduates and employers, to improve the performance and quality of the institutional provisions?

- The feedback regarding the teaching and communication of faculty, departmental issues, issues relating to college administration, transport, facilities like e-office, canteen and library are collected through a feedback form at the end of every semester.
- The feedback comprises of 12 different aspects to be marked on a scale of 1 to 5 (with 5 being the best). At the first level, if the feedback is about the faculty, departmental issues, then it is solved at the level of the HoDs.
- Each individual teacher is being supplied with the average values of each of the feedback questions. The teacher is required to correct his attitude basing on the feedback that he gets.
- The feedback regarding departmental issues, issues relating to college administration, transport, e-office, canteen and library are forwarded to Principal and then management for redressal. If the issues are general in nature, it will be handled by the Principal, if needed the management's support is taken for redressal.
- The principal, management and HOD's go through the feedback for corrective actions.
- The Exit feedback is collected from all the outgoing students /staff every year seeking their opinion on the instructions and delivery, infrastructural facilities, library facilities, computing facilities, games & sports facilities, training facilities, support to placement activity, etc.
- The feedback of the students is compiled and all the suggestions made by the students are taken into consideration and an anticipative report is presented to the Management for effective improvements in subsequent years. Feedback regarding student performance is collected whenever the campus recruitment drives are conducted to take stock of the level of student's readiness for employment. Basing on the feedback corrective measures are taken up every year to make to students employable for the present day requirements.

5.3.4 How does the college involve and encourage students to publish materials like catalogues, wall magazines, college magazine, and other material? List the publications/ materials brought out by the students during the previous four academic sessions.

Students are encouraged to form into a club and required motivation and conceptual help for preparing technical papers at National level paper presentation contests is given by a teacher who is given this assignment in addition to his/her regular duties. Departments

encourage the students to prepare and display the working models during the project expo. College conducts technical paper presentation contests, for the students and encourages all the students to participate in conferences & technical fest (Techno Vision, Project Expo, Hi-tech Fest) to present their research & innovative thinking. The students are involved in various committees formed for organizing conferences, workshops, guest lectures at institution and departmental level. The College encourages its students to publish materials like college magazine; Newsletters etc. The students are motivated to express their talent in the form of articles, paintings. The college magazine provides a platform to bring out their hidden talents.

5.3.5 Does the college have a Student Council or any similar body? Give details on its selection, constitution, activities and funding.

Each branch has a Departmental Association. The executive committees of these associations comprise President from final year, Vice-President from pre-final year, Secretary from first or second year and Treasurer from third year. The associations conduct the activities under the guidance of the faculty representatives. The College makes budgetary allocations for student activities. The following are the activities generally undertaken by the departmental associations.

- Expert Lectures, Technical Talks, General & Technical Quiz ,Aptitude Tests ,Workshops and Group Discussions.

The student council is constituted by nominating two students one girl and one boy from each department and the meetings are held under the guidance of the faculty advisor and HOD's. The student council actively participates in planning and conducting the annual techno-cultural festival to showcase the culture of all the parts of the country in a grand way every year. The college funds entirely for all the activities every year.

5.3.6 Give details of various academic and administrative bodies that have student representatives on them.

Different academic and administrative activities are conducted with students nominated as members of various committees including:

Class Committee

- Placement Co-ordination committee
- Co-curricular activities committee
- Departmental Association
- NSS
- DWR

NAAC - SELF STUDY REPORT

- ISTE Student Chapter
- CSI Student Chapter
- IETE Student Chapter

A part from the above the college is having various clubs like technical, Cultural, sports, dance, music, yoga, martial arts, painting, culinary, language, social welfare and green clubs in which formed and managed by students with a Teacher as co-ordinator.

Some of the Committees which are managed by students are:

Class Monitoring Committee: Each class has a class representative (CR) and Girls representative (GR). HOD of each department interacts with class representative and girl's representative and enquires about academic issues from time to time.

Student Organizing Committee: Constituted at department level to organize various technical events during inter collegiate fests, seminars and conferences.

Administrating Bodies:

Following are the committees formed by the College where students are nominated as members:

Anti Ragging Committee:

Minimum 7 students from all branches

Teacher In-charge: Dr.CH. Naga Bhaskar

Women Empowerment and Grievance Cell:

Minimum 7 students from all branches

Teacher In-charge: Mrs. R. Sunitha

Student Affairs Committee: Dr. D. Kailasa Rao

Minimum 7 students from all branches

Teacher In-charge:

Career Development Committee:

Minimum 7 students from all branches

Teacher In-charge: Mr. S. Sri Harsha, Mrs. T. SriLatha

Canteen Committee:

Minimum 7 students from all branches

In-Charge: Mr. K. Gopal

Hostel Committee:

Minimum 7 students from all branches

In-Charge: Mr. U. Naresh

5.3.7 How does the institution network and collaborate with the Alumni and former faculty of the Institution. Any other relevant information regarding Student Support and Progression which the college would like to include Network with the Alumni.

College invites all the former students for alumni meetings which is conducted once in a year. The College Management takes their

NAAC - SELF STUDY REPORT

advises, opinion and support for the development of the institution. All the departments are advised to seek the opinion / suggestions of alumni on various aspects from the senior faculty who left or retired from the college on all developmental activities by sending mails to them and requesting them to fill the proforma supplied in this regard. A separate page is designed in the college website for better interaction between the college and alumni.

**CRITERION VI:
GOVERNANCE, LEADERSHIP AND MANAGEMENT**

6.1 Institutional Vision and Leadership

6.1.1 State the vision and mission of the Institution and enumerate on how the mission statement defines the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, institution's traditions and value orientations, vision for the future, etc.?

VISION

To evolve as the most preferred educational group with Global recognition as Centre of innovation and excellence, aiming to achieve transformation in education. Inducing profound knowledge in serene environment by synchronizing education with professional ethics and values.

MISSION

To keep in assiduous efforts and transcend our Vision into reality, we are committed with an insight of shaping technocrats into prospective professionals at the cutting edge of industries with competitive advantage.

The Vision and Mission statements communicate explicitly of the immediate emphasis on the development of the cognitive and affective domains to the entrant of the college. The fulfillment of the Vision and Mission are obvious in the objective of the institution.

QUALITY POLICY

Top management is committed to Students / Parent requirements and expectations, efforts were made to meet them.

6.1.2 What is the role of top management, Principal and Faculty in design and implementation of its quality policy and plans?

The institution, NRIIT is governed by the Sri Durga Malleswari Educational Society consisting of eminent members, Dr. R. Venkat Rao, Chairman of NRI Group of Colleges, Sri K. Sreedhar, Secretary, NRI Group of Colleges, Dr. V. Srinivasulu, HOD of Civil Department, JNTUK, Prof. P. Trimurthy, Retd. Prof. of ANU, Prof. K. Saraswathi, Retd. Prof. of SVU, Prof. D. Peramma, Retd, Prof. of SVU, Sri D. Rama Krishna, MD., Efftronics Ltd., Dr. P. Narasimha Rao, Prof. in Economics and Dr. C. Naga Bhaskar, Principal, NRI Inst. of Tech. The college is guided by well defined Quality Policy. The Management, the Principal and the staff/faculty work in tandem in proper implementation of the quality policy and plans. The Principal as the Head of the Institution provides a dynamic and requisite leadership to the system. The Chairman regularly interacts with Principal and Faculty to discuss various policy matters and their effective implementation. The Governing Body members meet at 2-3 times per year and discuss key aspects in detail and arrive at the necessary strategies and plans for developing the institution and improving the quality of education in the campus.

The Management, Director and Principal are always available to the faculty who want to present their views and ideas. The opinions of faculty and staff will be considered positively for evolving policies. The Principal provides academic leadership and in association with the various faculty, evolves strategies for academic growth. The faculty is actively involved in the decision-making process to sustain and enhance quality of education imparted by the institution. The top management takes utmost care in providing excellent infrastructure facilities and conducive learning environment to students. The leadership in NRIIT is such that it motivates all its employees to contribute their best by providing a harmonious work culture.

6.1.3 What is the involvement of the leadership in ensuring :

- **The policy statements and action plans for fulfillment of the stated mission**

The management takes responsibility in providing the facilities for learning and growth of the college. Prior planning is made by every

NAAC - SELF STUDY REPORT

department well before the commencement of the academic year and after critical study, the budget is allocated under various heads for improving infrastructure and development of the institute.

As many of the students are from the rural background there is a need to stress on improving their communication skills and make them job / placement ready by the time they leave the college. Keeping this in mind the English department is strengthened, which in turn reflects the mission statement.

The mission is also to produce highly competent engineers with excellent technical and behavioral skills. The students are trained in these aspects through regular curriculum, co-curricular activities like guest lectures, seminars and training in various other aspects. The Management proactively supports all these activities. Thus the leadership helps in moulding the students into worthy citizens of the society.

• Formulation of action plans for all operations and incorporation of the same into the institutional strategic plan

Based on the policy statements, the management advises the staff to accomplish the strategic plans through various activities. The success of different activities is ensured through strict adherence to the action plans such as

- Academic calendar for the college which details the curricular activities
- Calendar of events for co-curricular and extra-curricular activities by individual departments
- Budgetary sanctions
- Lesson and course plans

• Interaction with stakeholders

Keeping in mind the stakeholders whom the college has to serve such as students, faculty, parents, industry, government and society, the leadership focuses on how to interact with various stakeholders. The inputs and feed back about the functioning and various other aspects of the college is collected through a number of ways.

NAAC - SELF STUDY REPORT

- Interacting and getting the opinion of the regular students through various platforms
- like Class Review Committee(CRC), Grievance Redressal Committee, formal & informal feedback, counseling, etc..
- Organizing parents meeting during the admission process, interacting with them during counseling and obtaining the views and suggestions of parents.
- Recording the opinions of the academicians and other eminent people when they visit the college
- Interaction with faculty members through various formal and informal meetings and also obtaining feedback from them.
- Alumni are best source to obtain un-biased feedback basing on their experience within the college and the external world.
- The feedback of the recruiters from various companies helps the college to identify any improvisations required in the talents of the students.
- The college also tries to get feedback from the employers through the placement cell about the performance of our students working in their organization.

The feedback received from all stakeholders is critically reviewed, analyzed and remedial actions will be initiated. The management encourages the participation of the staff in the process of decision-making in institutional functioning. The personal interaction of the Principal with various stakeholders, the faculty, the non teaching staff, the students and the guardians also plays an important role in this. Thus, participatory role of the management encourages and sustains the involvement of the college staff, which is necessary for the efficient and effective running of the College.

• Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders

The inputs collected from various stakeholders will be taken into cognizance by the management and through various interactive methods with the staff helps them in identification of critical areas for development and reviews progress in continuous improvement.

- **Reinforcing the culture of excellence**

NRIIT always benchmarks itself with best institutes in the country and tries to implement the best practices. It channelizes the procedures and practices in tune with such practices to create an ambience that is most conducive for academic excellence.

- **Champion organizational change**

NRIIT follows a structured approach for ensuring that changes are smoothly and successfully implemented, and that the lasting benefits of change are achieved. In order to accomplish this, NRIIT aligns stakeholder's expectations, communicates, and integrates with employees efforts for the growth of the institution. It makes use of performance metrics in terms of pass percentage, placement percentage, presentation in conferences, journal publications, accepted proposals, consultancy work etc to design appropriate strategies. These are communicated to the employees so that they execute and accomplish the requirements as per the strategies set.

6.1.4 What are the procedures adopted by the institution to monitor and evaluate policies and plans of the institution for effective implementation and improvement from time to time?

The HoDs meeting which is held every week discusses not only regular aspects but also how the various plans and policies are being implemented through different activities. College is totally committed to the aspects of continuous improvement and evolves modified strategies for the betterment of quality. The policy decisions taken by the appropriate authorities will be closely monitored by the respective committees for the implementation of decisions, noticing the challenges during implementation and suggesting suitable alternative actions.

Close and regular monitoring of critical activities ensures effectiveness of the plans that are to be implemented. For example the intake analysis which is done to analyze the trends and variation in the intake helps in identifying the areas to improve the intake ranks. Similarly the result analysis ensures in identifying different issues related to the performance of the students of the college not only in comparison with previous years but also with the other affiliated colleges of the University. The class work review committee meeting help different departments in framing strategies for full coverage of

the syllabus at a uniform pace. The attendance monitoring and analysis helps in identifying the under-motivated students, counsel them, so that they will be in the regular stream and thus improve the overall performance of the college. The Departmental Advisory Committee helps in identifying the areas in need of improvement and helps in planning accordingly.

6.1.5 Give details of the academic leadership provided to the faculty by the top management?

NRIIT management protects the freedom of individual faculty members, appreciates their innovations and thereby ensures greater motivation. The top management encourages the members of faculty to present their suggestion and views for the development of the institution. The Management and Principal ensure harmonious climate of human relations between students, faculty members, and departmental heads to enhance higher efficiency. The top management ensures great emphasis on Motivation for research and professional progression with a degree of liberty and also other acts of academics like:

- Pooling their academic resources, best expertise and experiences
- Giving autonomy to participate in R & D activities
- Freedom of action and decisions
- Freedom of research and publication
- Freedom of thought and expression

6.1.6 How does the college groom leadership at various levels?

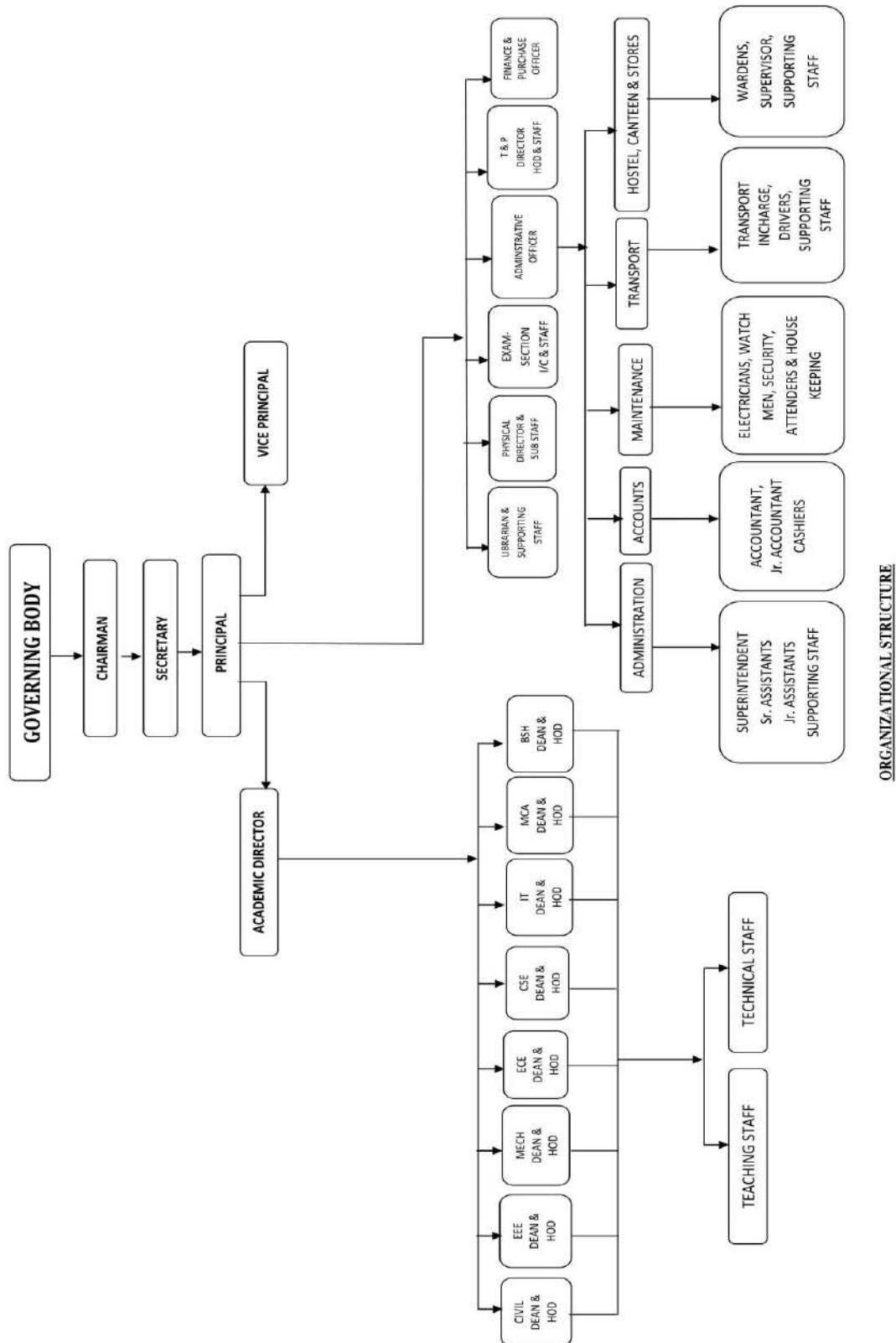
The Principal is the academic as well as the administrative head of the institution. He acts independently by blending the rules and regulations as well as the norms laid down by the AICTE and JNTUK, Kakinada with the policies and strategies of the college. The college believes in decentralization of administration and transparency of governance. Independence is given to all Heads of the Departments in planning, organizing and implementing various activities in the departments in a effective way. The HoDs in turn will delegate the authority and support the faculty in taking up various departmental

activities. Various committees/cells were constituted and the committee chair person / coordinator works independently to ensure the objectives of the committee are met with. The college ensures that leadership is groomed at various levels through committees which create an ambience of trust and enhance competence and foster a sense of belongingness to the institution among the faculty and students.

6.1.7 How does the college delegate authority and provide operational autonomy to the departments / units of the institution and work towards decentralized governance system?

The college ensures decentralization and thus delegates authority at different levels ensuring good governance. Empowering heads of the departments to distribute work load to faculty, identifying the add-on courses to deliver, identifying the content beyond syllabus and to organize various faculty and student development programmes. Allocation of budget is based on the proposals received from the department and once it is approved for a financial year and various operations can be performed by the Head of the department, as envisaged in the approved budget.

NRIIT Organisational Structure as follows :



6.1.8 Does the college promote a culture of participative management? If 'yes', indicate the levels of participative management.

Yes, the college does promote a culture of participative management. It has inculcated the practice of hearing the voices of all concerned. Every week the HoDs meeting with Principal will be held and the views of all HoDs will be taken into cognizance before a decision is taken. Similarly department faculty meetings are being held at regular intervals where internal issues within the department are discussed and the deliberations of HoDs meeting are discussed. The concerns of faculty if any, will be again brought to the notice of the Principal in the next HoDs meeting. The suggestions and concerns of staff are well appreciated and received by the heads of the department and in turn the suggestions of heads of the departments are received well by the top management. Leadership in NRIIT always recognizes the significance of listening and interpreting the views of all the employees and practices this culture meticulously.

6.2 Strategy Development and Deployment

6.2.1 Does the Institution have a formally stated quality policy? How is it developed, driven, deployed and reviewed?

The quality policy of the institute states “NRIIT is engaged in imparting quality technical education. It constantly strives towards achieving high standards of teaching, training & development of human resources by encouraging its faculty, staff to work as a team and to update their knowledge and skills continually to match the needs of industry.” The institute strongly believes that to reach the position as stated in Vision and Mission statements, the human resource is the prime factor amongst the other resources. In the present scenario of liberalization and highly competitive world, to become a world class institute one has to bestow the end-user with the best possible service. It is much more valid in case of an educational institute which strives to impart quality education. To achieve this, the teaching fraternity has to set high goals and work as a team. Quality is not an end goal but the means and processes to achieve it are critical which are to be continuously nourished. Basing on this idea the quality policy was developed. All the activities are

NAAC - SELF STUDY REPORT

driven by the quality policy and are closely monitored. The various performance indicators like pass percentage, input ranks, placements, achievements in co-curricular activities of students and the achievements of the faculty will be critically analyzed each semester / year and reviewed.

6.2.2 Does the Institute have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.

Yes, the institute has a perspective plan for development. The following are the salient features of the developmental plan of the Institute.

- To make the Institute as a “Center for Excellence” , which is our vision.
- To make each department self-sustained by furnishing latest equipment and engaging highly qualified faculty
- To train the students to make them ready for facing competition at national and international levels
- To mould the all-round personality of the students and make them leaders in their respective fields
- To enhance the number of Post-Graduate Courses encompassing in all branches of Engineering and multi-disciplinary areas
- To Develop as a “Research Centre” for Engineering Courses
- To offer Consultancy Services in various fields of specializations
- To obtain NBA accreditation for all the programs being offered
- To enter into collaboration with Institutes of National and International repute for twinning programs
- Securing recognition by UGC under 12(b) of the UGC act
- To secure accreditation by NAAC with good grading

6.2.3 Describe the internal organizational structure and decision making processes.

The internal organization structure is given in 6.1.7.

- The Principal is the head of the institution looks into both academic and administrative matters and acts as a bridge between the Management, Faculty, Staff and Students. Academic Director and

NAAC - SELF STUDY REPORT

Administrative Officer work with the Principal in executing general administrative works.

- HoD is responsible for the functioning of the Department as per the laid down policies of the college and will be reporting to the Principal. HoD will prepare budget estimation for the Department for its operation, maintenance and development. HoD will constitute various committees at the department level for smooth implementation of various activities.
- Coordinators of all committees at the college level will report to the Principal.
- Director - Training and placement cell who looks into all activities related to campus recruitment and training of students will be reporting to the Principal.

6.2.4 Give a broad description of the quality improvement strategies of the institution for each of the following

- Teaching & Learning

- Provision of e-learning resources in Central Library
- Ergonomically designed classrooms with networking facility
- Provision of e-classrooms
- Development of student support :
students and offer support
- Organization of Remedial classes and makeover classes
- Delivery -on-courses with external agencies like Infosys, Oracle, AutoCAD, Matlab, etc.,
- Conduct of pre-placement training classes and campus connect programmes
- Structured course files and lab manuals on all courses.
- Academ
- Studen -back on teachers and going through the necessary follow-up action.
- Conducting Faculty Development Programmes before commencement of each academic year.
- Continuously strengthening and upc
and the library resources.

• **Research & Development**

- Constituting research groups of faculty to cover the main areas of interest for each branch.
- Allocation of budget for in house R & D
- Incentives and rewards for publication students.
- Financial assistance to students for model making.

• **Community Engagement**

- NSS activities
- Blood Donation Camps
- Free medical camps.
- Environment friendly activities

• **Human Resource Management**

- Transparent policies
- Transparent and scientific way of selections
- Imparting rel.
- Formulation and communication of policies of the college
- Support for academic advancement
- Systematic performance appraisal system and guidance to the people concerned
- Systematic pro
- Democratic way of administration with participative management

• **Industry Interaction**

- Having MoUs with Infosys, Oracle, Moocs & APSSDC for Industry-Institute- interaction for campus recruitment, consultancy and student training.
- Rapport with industry for industrial training and to ensure the students do live projects in the industry.
- Getting inputs from the industry t
Advisory committees for strategic planning

6.2.5 How does the Head of the institution ensure that adequate information (from feedback and personal contacts etc.) is available for the top management and the stakeholders, to review the activities of the institution?

The Head of the institution interacts with management very frequently. The head of institution appraises the management about the information received from feedback from parents, alumni, industry, teachers, students and the public with regards to the teaching quality, curriculum, extracurricular activities and infrastructural demands. In the meetings with Governing Body Members the information gathered from different sources are discussed with the participating members. After thorough discussion and deliberations the existing facilities and activities of the institution are reviewed and decisions are taken for their implementation after going through the available resources and modalities. The decisions taken and activities of the institute will be communicated to stakeholders within college through circulars and external stakeholders through college website and news letter published.

6.2.6 How does the management encourage and support involvement of the staff in improving the effectiveness and efficiency of the institutional processes?

Management encourages dynamism and expects proactive initiative of members. A quality suggestion of any member will be given due consideration in decision making. A systematic and participative management is the feature of the institution that leads to the determination of right direction. After making decision, concerned committees will implement it in true spirit with the guidance and cooperation of all the members. Thus promoting belongingness in faculty and staff paves the way for effectiveness and efficiency in the processes.

6.2.7 Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.

General Body Meeting held on 24/01/2016 at 10 AM in the chambers of the Chairman, NRIIT

AGENDA ITEMS :

1. To discuss about the strategy for admissions in NRI Institute of Technology during the Academic Year 2016-17.

NAAC - SELF STUDY REPORT

2. To discuss the results of various branches and PG courses in various Semesters during the Academic Year 2015-16.
3. To discuss about the progress of Campus Placements during 2015-16.
4. To discuss about the requirements regarding building space and infrastructure during 2016-17 Academic Year.
5. Any other Item with the permission of the Chair.

RESOLUTIONS PASSED :

Considered the strategy to be followed for admissions into various branches of B.Tech., M.Tech., and M.C.A., course for the Academic Year 2016-17.

Resolved that the admissions to various branches of B.Tech., course for the Academic Year 2016-17 be improved.

Further Resolved to authorize the Chairman, Dr. R. Venkat Rao to plan suitable strategy such as advertisement etc., for sustaining the strength in various branches of B.Tech., and M.Tech., course and M.C.A.

Considered the results of various branches and PG courses in various Semesters during the Academic Year 2015-16.

Resolved that the percentage of passes in all the branches of B.Tech., and results of M.Tech., and M.C.A., are satisfactory. But noted that there are a large number of students in the 1st Year 1st Semester, 2nd Year 3rd Semester, 3rd Year 5th Semester and 4th Year 7th Semester with backlogs especially in certain branches. Hence, resolved to request the Principal and all HODs to take suitable measures to help the students in clearing their backlogs.

I. **Considered** the progress of campus placements during 2015-16.

Resolved to place on record the efforts of Chairman and Placement Department. However, resolved to extend all the help required to the

NAAC - SELF STUDY REPORT

Placement Department to bring more companies for on campus recruitment. Further resolved to authorize the Chairman to take decision regarding allotment of funds required for organizing the Campus Placements.

II. **Considered** the requirements regarding building space and infrastructure during 2016-17 Academic Year.

Resolved to authorize the Chairman to discuss the requirements with the Principal and other members of the teaching departments and plan suitably to organize the required during the summer holidays.

Further Resolved to authorize the Chairman Dr. R. Venkat Rao to spend the required amounts from the Society funds.

III. In view of poor response to MCA admissions, it is resolved to reduce the intake from 120 to 60 from the next Academic Year i.e., 2016-17. To this effect Principal is authorized to make correspondence with concerned authorities.

6.2.8 Does the affiliating university make a provision for according the status of autonomy to an affiliated institution? If 'yes', what are the efforts made by the institution in obtaining autonomy?

Yes. The Affiliating University is providing a provision for Autonomous to affiliated institution. The Management is planning to acquire Autonomous by taking proper steps.

6.2.9 How does the Institution ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder relationship?

The Grievances Redressal Cell is headed by the Co-ordinator and all problems will be solved within a time frame. The Cell will look into the grievances and they will be resolved promptly. The monitoring system also helps in taking prompt action on any complaint received from the students. The complaint box placed also helps in identifying the problems in anonymity also.

6.2.10 During the last four years, had there been any instances of court cases filed by and against the institute? Provide details on the issues and decisions of the courts on these?

No

6.2.11 Does the Institution have a mechanism for analyzing student feedback on institutional performance? If ‘yes’, what was the outcome and response of the institution to such an effort?

Yes. The feedback obtained from the presently studying students is on academic related matters only like performance of the faculty and syllabus coverage. The College obtains student feed back twice in a semester one in the middle of the semester and the second one shall be taken at the end of Semester. In addition, class monitoring committees will provide feedback on coverage of syllabus. After thorough analysis, the head of the department provides views and suggestions and communicates the same to the concerned faculty. Needed support and guidance will be provided by senior faculty. The improvement of the performance of that faculty will be monitored through subsequent feedback. The feedback from the Alumni includes the institutional performance.

6.3 Faculty Empowerment Strategies

6.3.1 What are the efforts made by the institution to enhance the professional development of its teaching and non teaching staff?

- Training teachers for excellence
- Sponsoring Faculty & Staff for higher education.
- Sponsoring Faculty & staff for attending workshops, conferences at national and international level by granting academic leave and providing financial assistance.
- Organizing Faculty development programmes
- Encouraging faculty to deliver guest lectures outside
- Providing industrial training to faculty for e.g., campus connect programme of Infosys, Wipro 10x Mission.
- Motivating faculty by providing incentives such as “Best Teacher Award”, encouragement for paper publications.

NAAC - SELF STUDY REPORT

For the non teaching staff the computer awareness programme and spoken / written English classes are being organized every summer by Departments of CSE & English respectively.

6.3.2 What are the strategies adopted by the institution for faculty empowerment through training, retraining and motivating the employees for the roles and responsibility they perform?

- Training new Faculty on instructional design & delivery by the experts from NITTTRI, Chennai and faculty from premium institutions before the commencement of academic year.
- Training faculty on emerging tech problems in industry by eminent external faculty from industry and institution by organizing guest lectures and seminars
- Deputing faculty to refresher courses.
- Formulation of various committees with faculty as coordinator / member with proper allocation of work, assigning responsibility and grant of adequate authority and autonomy.
- Constitution of best teacher award in teaching / research and thus appreciation of the expertise in merit and talent every year.
- Faculty are entitled to be sponsored for training programmes, paper presentations, attending seminars, workshops, quality improvement programmes etc.
- Besides better working environment conducive to teaching learning processes, other benefits like PF and incentives for both better performances as well for acquiring higher educational qualification has made the college to have higher retention ratio.

6.3.3 Provide details on the performance appraisal system of the staff to evaluate and ensure that information on multiple activities is appropriately captured and considered for better appraisal.

The Performance of the faculty is analyzed through the details provided by them in the self-appraisal form every year. The performance of the faculty is assessed basing on various parameters such as

NAAC - SELF STUDY REPORT

- Examination results on the lines of pass percentage, relative position with respect to other affiliated colleges of the university, scores of students etc..
- Student feedback
- Involvement in co-curricular and extra-curricular activities
- Responsibilities taken in the department
- Publications and research work etc..
- The score is computed for 100 and all these are evaluated. The performance of each faculty is reviewed by the administration and the areas of improvement are suggested.

6.3.4 What is the outcome of the review of the performance appraisal reports by the management and the major decisions taken? How are they communicated to the appropriate stakeholders?

The outcomes of the performance appraisal will reflect in the annual increment, incentives and the promotion of the faculty. They are communicated through annual increment order and promotion orders.

6.3.5 What are the welfare schemes available for teaching and non teaching staff? What percentage of staff have availed the benefit of such schemes in the last four years?

A healthy and good retention ratio is maintained in the faculty cadre by creating a good environment and providing incentives as detailed below.

- Free Transport for all employees. 100%
- Incentives , Promotion and increments are given. 100%
- Maternity leave and post maternity are provided for once. 100%
- Earned Leave, Employee provident fund, Medical Leave are provided. 100%
- Employee Provident Fund. 60%
- Sponsorship to Workshops/Seminars/Refresher Courses, On Duty. 100%

6.3.6 What are the measures taken by the Institution for attracting and retaining eminent faculty?

NAAC - SELF STUDY REPORT

Providing an academic environment conducive for teaching, pursuing research, participation in curricular, co-curricular, extra-curricular, training and placement activities aimed to enhance the quality of education, competency of the students and the reputation of the Institution. Systematically conducted appraisal and giving due recognition and awards for good performance, making available a number of staff welfare schemes, maintaining a good administrative system and offering attractive salary to attract and retain the eminent faculty. All the welfare schemes outlined in section 6.3.5 above help the institute to attract and retain faculty.

- Annual increments are paid regularly
- Women faculty is provided provision with maternity leave
- Publicizing faculty achievements through notices, mails and website.
- Medical Leave and Special Casual Leave on medical grounds.
- Pongal, Dasara & Summer paid vacations
- Provision for Sabbatical Leaves

6.4 Financial Management and Resource Mobilization

6.4.1 What is the institutional mechanism to monitor effective and efficient use of available financial resources?

The Institution has well defined mechanism to monitor effective and efficient use of available financial resources. College obtains budget proposals from concerned departments in a academic year. After assessing the projected income for an academic year, college allocates budget to each department with minute details. After the allocation, the departments can avail the financial resources within the sanctioned limit.

Purchases will be made with the recommendations of duly constituted purchase committee. The amounts withdrawn from the banks will follow a systematic mechanism of obtaining the approval at various levels. If any expenditure is made beyond budget sanction, ratification will be done in a special meeting.

6.4.2 What are the institutional mechanisms for internal and external audit? When was the last audit done and what are the major audit objections? Provide the details on compliance.

Audits are conducted in every quarter. There are no major audit objections.

NAAC - SELF STUDY REPORT

6.4.3 What are the major sources of institutional receipts/funding and how is the deficit managed? Provide audited income and expenditure statement of academic and administrative activities of the previous four years and the reserve fund/corpus available with Institutions, if any.

Audited data for income and expenses for the last 4 years

S.No.	Description	2015-16	2014-15	2013-14	2012-13
1	Income (Rupees)	183,264,545.00	162,083,334.00	128,175,742.00	98,099,231.00
2	Academic Expenses (Rupees)	65,906,880.01	50,478,106.38	58,459,888.71	12,307,588.82
3	Administrative Expenses (Rupees)	88,145,433.49	70,650,028.37	57,896,402.53	83,192,059.58
	Total expenses (Rupees)	154,052,313.50	121,128,134.75	116,356,291.24	95,499,648.40

6.4.4 Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any)

The institution encourages faculty to apply for various schemes available under different government organizations such as AICTE, UGC, CSIR, etc.

6.5 Internal Quality Assurance System (IQAS)

6.5.1 Internal Quality Assurance Cell (IQAC)

- a. Has the institution established an Internal Quality Assurance Cell (IQAC)? If 'yes', what is the institutional policy with regard to quality assurance and how has it contributed in institutionalizing the quality assurance processes?**

Yes. The institution has established an Internal Quality Assurance Cell (IQAC). The policies of the institutional quality assurance cell are:

NAAC - SELF STUDY REPORT

- To equip the students of the college with the knowledge in the latest trends in their , resp o prepare them to meet the requirements of the job market.
- To focus on augmenting the placement of the final year students in reputed companies through effective campus placement drives.
- To organize more number of guest lectures by eminent resource persons/subject experts in all the departments to enhance the academic input.
- To continue the schemes of Remedial classes for the slow learners and Bridge courses for students from other school backgrounds.
- To conduct Faculty Development Programmes (FDPs) periodically to update their knowledge.
- To record all the major and minor achievements of all the Departments and publish them in newsletters in clusters.
- To continue the activities of the Center for Research and to document all research related proceedings of the faculty through effective centralized recording system.
- To improve the communicative skills of the students.
- To upgrade the industry-institution relationship by developing linkages with professional/research bodies
- To conduct a social audit and to enhance the status of the institution in the society.
- To inculcate the spirit of service mentality among student volunteers through NSS activities
- To give adequate counseling and guidance to students in their personal / academic / professional fronts through the Counseling and Guidance cell.
- To encourage more number of students to participate in sports by providing them with required training, coaching and guidance.

b. How many decisions of the IQAC have been approved by the management / authorities for implementation and how many of them were actually implemented?

Our college management strongly believes in quality education as mentioned in the vision and mission statements and thus approves and supports the activities of IQAC and approved the decisions taken by the body as mentioned in the Academic Calendar.

c. Does the IQAC have external members on its committee? If so, mention any significant contribution made by them.

External Members are

1. Mr. Hara Gopal, ISO Consultant
2. Mr. Chakravarthi, Auditor, BMQR Certifications

The presence of external members on IQAC Committee has immensely helped the body and the institution in planning and execution of the events in an efficient manner. The presence of other members from industry helps in redefining some of the parameters in improving the quality of the skills of the students to make them placement / industry ready by the time they complete the course.

d. How do students and alumni contribute to the effective functioning of the IQAC?

The committee also consists of students and Alumni as members. The Students are regularly interacts with the college and any suggestions are well taken for the improvement of quality in various activities of the college.

The members of the committee are

1. Dr. C. Naga Bhaskar, Principal
2. Dr. M.V.N. Sarma, Director
3. Dr. K.V. Sambasiva Rao, Dean
4. Dr. D. Kailasa Rao
5. Dr. N. Sambasiva Rao
6. Dr. V. Suryanarayana,
7. Prof. R. Sunitha
8. Prof. B. Mouleswara Rao
9. Prof. V. Sudhakara Rao
10. Prof. R. Vijaya Krishna
11. Prof. Ch.Ch. Srinivas.
12. Prof. M. Babu Prasad
13. Sri. K. Vamsi Krishna

e. How does the IQAC communicate and engage staff from different constituents of the institution?

The faculty and non-teaching staff representatives are nominated as members of the general body of IQAC. The IQAC elicited the views of the staff members of the institution who proposed the conduct of various curricular, co-curricular and extra-curricular events and the proposals were subsequently discussed and finalized in IQAC meetings. The IQAC also regularly interacts with the staff members through circulars and periodic meetings to ensure their effective participation in all the activities of the body.

6.5.2 Does the institution have an integrated framework for Quality assurance of the academic and administrative activities? If ‘yes’, give details on its operationalisation.

Yes. All the Academic bodies and administrative sections of the institution interact with IQAC and scrupulously follow its guidelines in maintaining quality standards. The committee for Academic and Administrative Audit (AAA) of the institution was also constituted to audit the activities of different departments.

6.5.3 Does the institution provide training to its staff for effective implementation of the Quality assurance procedures? If ‘yes’, give details enumerating its impact.

Yes. The institution organizes training programme to its staff members for creating an awareness and effective implementation of the Quality Assurance procedures. This helps the faculty to work for excellence and ensures all the stakeholders are benefited. The general body meetings ensures the policies made on quality assurance reach to all the faculty members. Apart from this, the institute encourages and sponsors faculty in participating in various orientation and refresher programmes, workshops, conferences, seminars etc., organized by reputed institutions like Central University, NITs and IITs .

6.5.4 Does the institution undertake Academic Audit or other external review of the academic provisions? If ‘yes’, how are the outcomes used to improve the institutional activities?

Yes. The institution has organized the Academic and Administrative Audit (AAA) on the basis of Self Assessment reports submitted by the respective departments and by using the standard procedures. The outcome of the audit is

to identify the deficiencies and take corrective steps for improving the institutional activities.

6.5.5 How are the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies/regulatory authorities?

The quality parameters evaluated by the various regulatory bodies such as AICTE and UGC are directed to enhance the quality in various criteria such as teaching-learning processes, development of infrastructure facilities, students progression, enhancing the research & development activities etc. The IQAC policies and objectives of the institution are so framed that they are in tune with the standards set by such agencies.

6.5.6 What institutional mechanisms are in place to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?

- The following mechanisms are in place to review Teaching -Learning Process
- Class work Review Committees (CF) to assess the extent of syllabus coverage, and also the quality of teaching.
- The lesson plans, quality of course material, assignments and question papers prepared by the faculty are assessed internally and suitable suggestions are given for enriching the teaching and learning processes.
- The feedback from students on faculty performance will be taken twice in a semester to evaluate the teacher performance in class room teaching on 12 parameters on a 5 point scale. The feedback is analyzed and evaluated for a maximum score of 100 and every teacher is provided with a copy of feedback for making necessary corrective action. Further, teachers are counseled by the head of the department and also by the Principal if required.
- Annual reviews are conducted using -appraisal forms to evaluate the performance on teaching, research and other performance related issues.

- The head of the institution interacts with few students of each class and takes the feedback on the teachers on the effectiveness of their teaching.

6.5.7 How does the institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders?

The institution communicates its quality assurance policies, mechanisms and outcomes through college publications, periodic meetings and website.

CRITERION - VII

INNOVATIONS AND BEST PRACTICES

7.1 Environment Consciousness

7.1.1 Does the Institute conduct a Green Audit of its campus and facilities?

Yes

NRIIT is located in a serene environment with plenty of Mango trees and blooming greenery since its inception. The institution is very conscious towards conservation, safety and sustainability of the environment. The institution believes in environmental responsibility and sticks to resource practices, such as waste reduction, recycling, reuse and energy conservation. The maintenance department of the college organizes green audits on a periodic basis which has made the campus eco-friendly. The lawns and gardens consists of good number of rain water harvesting structures, large number of trees, and the lawns are well maintained with water supplies by using recycled water,. Our NSS volunteers and gardeners take care of the garden and green campus. The college campus is a non polluting smoke free zone. Harmful products like tobacco are banned in the campus.

7.1.2 What are the initiatives taken by the college to make the campus eco- friendly?

Energy conservation

The buildings are designed in such a way that there is natural illumination and ventilation in the buildings and across the campus. The eco-friendly activities adopted in the campus are: energy efficient and star rated fans, rain water harvesting pits are constructed throughout the campus. Efforts are on to replace high energy consuming bulbs by LED bulbs, use of LCD/LED TFT monitors in all labs. An eco-friendly generator has been set on the campus to minimize the atmospheric pollution. To conserve energy with the existing system, the staff, faculty, students switch off lights, fans and other electrical devices to avoid wastage of energy when they are not in use. Windows are kept open to take advantage of natural light at the work places. Besides this the maintenance staff monitors the usage and manually controls the wastage.

Use of renewable energy

The Conventional Energy sources are fast depleting in strength and

NAAC - SELF STUDY REPORT

pushing us gradually towards an energy crisis. Exploring renewable energy sources like Solar Power is the only alternative affordable environment friendly technology that can cater to our ever growing energy needs. NRIIT took the initiative of establishing a 200 KVA solar plant on the roofs of four buildings using grid technology. The roof top Solar Power plant at NRIIT stands as a testimony to the fact that any forward looking organization can implement plans to meet their energy needs. The surplus electricity produced by our plant is fed into the A P Transco grid using the Net Metering Technology. This plant is capable of producing 750 to 1000 units of power every day including holidays and vacations. This plant is being maintained daily by the department of Electrical and Electronics Engineering.

Solar Street lights have been installed in the campus. It is proposed to install a bio gas plant in the institution to utilize the kitchen waste and the food waste from the hostel and canteen. The bio gas so generated can be used for cooking in the canteen and in hostels.

Water harvesting

Rain water from the top of the building is collected and is either stored or allowed to sink into the land. The water so collected is re used for gardening and other places. During summer this water is mostly used from the watershed. The waste water generated from canteen, hostels and academic blocks is used for the purpose of not only maintaining garden but also for growing vegetables in the institution. About 50% of the water so collected is used for this purpose and the remaining water goes towards re charging of the ground water.

Efforts for Carbon neutrality

The institution is located away from the city and is surrounded by Mango gardens and agricultural fields. The institution is committed to lowest CO₂ emission. The college management takes certain measures to prevent the emission of carbon dioxide in the campus. Motor vehicles are kept at a distance from the classrooms in the ear marked parking sheds. The dead leaves of the plants and the waste paper are never allowed to be put on fire but properly are disposed off in the pits dug in the earth and thus reducing atmospheric pollution. They are also used as manure for the plants. Institution also campaigns greenhouse gases measured in terms of their carbon dioxide equivalence. This helps in keeping the campus free from spreading CO₂ to a great extent.

Plantation

Instituted in the green lush mango gardens, our institution is built without disturbing any of the tall grown mango trees. Academic

blocks, hostels, playgrounds and other facilities are highly covered with shade of tall grown trees. On the sides of walk ways, green cover and flower bearing plants are planted. Plantation programme is the pet project of the NSS Unit of the college. This programme has been in progress right from the inception of the College. Saplings of various types of trees were planted in almost seven villages in and around the college by out NSS volunteers. The staff, students, parents; alumni are encouraged to plant trees inside and outside the campus. VIPs visiting the institution are requested to plant the trees. The Green club of the college takes up the responsibility of guarding the saplings from being damaged.

E-waste management

Processing of electronic waste causes serious health and pollution problems. Therefore the institution takes utmost care in effectively making use of the e-waste material. Since majority of the electronic devices contain variety of materials we intend to make arrangements to dismantle the system and re use where ever it is possible. Out dated and low end components are used for demonstration purpose either in our institution or in local schools.

7.2 Innovations

7.2.1 Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the college.

- Continuous evaluation and monitoring of performance of teachers based on feedback collected from the students and pass percentage in the subjects handled by them.
- Introduction of tutorial classes, remedial classes are integrated in the time table. This practice has improved the pass percentage of students and has helped in developing learning abilities among the students.
- Several innovative methodologies like, quizzes, personality development, cross word puzzles, real time demonstrations, group discussions have been introduced.
- The Principal has appointed a review committee to review all academic activities. The curriculum is devised into modules and the time schedules are planned in advance. In case of shortage, in curriculum design and development, add on subjects and add on experiments are included.

NAAC - SELF STUDY REPORT

- Over and above the subject, stipulated by the University about 10-15% more content is taught to the students where ever required to give wider knowledge base to the students.
- More electives are offered to suit the requirement of students.
- Students are encouraged to carry out projects in the college.
- Students are made to write their project reports. This will enhance the report writing among the students.
- Students profile is collected at the time of admission based on their economic conditions, rural background, medium of instruction, till that date and it helps in orienting the students to the Engineering education. Based on this bridge courses and value added courses are framed.
- When benchmarked with other Engineering Institutions, our institution ranked best upcoming in the district of Krishna.
- Emphasis is given on Research activities and publications of research papers by students and faculty members.
- Every faculty member is allotted 20 students. The faculty member acts as a counselor and mentor for these 20 students.
- College has created a robust e-learning facility for the students of all branches through the digital library. Individual lectures or videos by eminent professors from various IITs, NPTEL video lectures and learning materials provided by JNTU-Kakinada through the e-learning initiative called CoEeRD (Centre of Excellence for e-Resource Development and Deployment) are kept available in the digital library. Students of all departments can access this e- learning material through internet.
- Several innovative methodologies such as Role play, Quiz, Brain storming, Mind mapping, Comparison Charts, Guided Design, AtoZ approach, Analogy, Real Time Demonstrations, Group Discussions, Concepts Sketch are used in class rooms to make the complicated concepts easy.
- Placement oriented training is implemented to all the students from the second year onwards. The training programme is incorporated into the curriculum.
- Extension lectures are conducted on regular basis where experts from different walks of public life interact with the students.
- In order to bridge the Institution-Industry skill gap, experts from industry, academia and alumni are made members of the Academic Advisory Committee.
- To promote research attitude among students besides helping them get placements mini projects and major projects are entrusted to them.
- More elective courses are offered as per the curriculum, to meet

the varied interest of the students.

At the time of admission, proper guidance is given by the staff members and HoDs to the aspiring candidates about the scope and objectives of various programmes to enable them to choose the programme of their choice.

7.3 Best Practices

7.3.1 Elaborate on any two best practices, which have contributed to the achievement of the Institutional Objectives and/or contributed to the Quality improvement of the core activities of the college.

Best Practice I

Title of the Practice: Enhancing student skill set

Objectives :

To enhance the following skills among the students:

- Technical competence
- Interpersonal Skills
- Employability skill

The Context

The college has been working with the aim of making it a Centre of excellence. Students from different levels & backgrounds need training to improve their technical as well as employability skills. Considering these requirements, college is providing excellent facilities to the students to improve their skills and to achieve their career goals. The college has been facilitating young adult learners with opportunities to hone their ethics and leadership potential.

The Practice

To realize the student's aspirations our college has offered Spoken English classes for all the second year students UG students and Aptitude classes for Third year and Final year UG students. Spoken English classes are taken care of by the Faculty of English. Online placement tests are periodically conducted to enhance aptitude,

NAAC - SELF STUDY REPORT

mental ability and reasoning of the students to improve their employability. The placement cell convenes group discussion and mock interviews to train them well for placements.

Evidence of the success

B. Tech / M.Tech / MCA PLACEMENTS DATA - COMPANY WISE FOR 2015-2016 BATCH

S.No.	Company Name	No. of Placed students	Salary offered (Rupees)
1	TECH MAHINDRA	29	3.25 L
2	HEXAWARE TECHNOLOGIES	24	2.5 L
3	INFOSYS	9	3.2 L
4	WIPRO	2	2.2 L
5	MPHASIS	4	2.5 L
6	NTT DATA	2	3.0 L
7	SLK SOFTWARE	4	2.4 L
8	TCS	12	3.33 L & 3.5 L
9	TECH TAMMINA PVT. LTD.	14	2.8 L
10	ODESSA TECHNOLOGIES	0	2.4 L
11	CMS	72	2.5 L
12	UX REACTOR	3	3.3 L
13	SYNTEL	17	2.9 L
14	FLEXIWARE SOLUTIONS	9	1.9 L
15	GOOD THROUGH	6	2.4 L
16	GEMINI COMMUNICATIONS	11	1.92 L
17	DIVAMI SOFTWARE SOLUTIONS	0	3.5 L

NAAC - SELF STUDY REPORT

18	FSS	0	4.5 L
19	INRHYTHM	0	3.0 L
20	VEDA IIT	0	2.5 L
21	NETAFIM INDIA LTD.	9	4.8 L
22	RETAILON	7	4.0 L
23	UNITECH TRANSFER	0	3.5 L
24	JUST DIAL LTD	0	4.0 L
25	VEE TECHNOLOGIES	32	1.5 L
26	ACCEL FRONTLINE GLOBAL IT SERVICES	3	2.3 L
27	GLOBAL LOGIC	0	2.1 L
28	INTONE NETWORKS	0	1 to 4 L
29	RASTER ENGINEERS	4	2.2 L
30	MUSIGMA	0	6.0 L
31	GENPACT	0	2.75 L
32	SANRAY		2.75 L
33	SOFTWAY SOLUTIONS	0	3.35 L
34	JAIN IRRIGATIONS SYSTEMS LTD.	13	3.0 L
35	AVONTIX	0	2.0 L
36	MEDPLUS	14	1.8 L
37	AGS HEALTH CARE	14	1.8 L
38	MainTec	0	1.5 L to 2.0 L
39	Ramtech Corp	10	1.2 L
40	JSKILZ	17	1.5 L to 2.0 L
	Total	341	

NAAC - SELF STUDY REPORT

B. Tech / M.Tech / MCA PLACEMENTS DATA - COMPANY WISE FOR

2014-2015 BATCH

S.No	Company Name	No. of Placed students	Salary Offered (Rupees)
1	Tech Mahindra	34	3.03 L
2	ATOS	18	3.3 L
3	Value Labs	5	1.8 L
4	Sutherland Global Services	9	1.32 - 2.04 L
5	NTT Data	2	3 L
6	Infosys	4	3.2 L
7	Virtusa	3	3.6 L
8	Mphasis	2	2.5 L
9	Digital Juice	1	2.4 L
10	Wipro	8	1.62 L
11	Eider Motors	1	1 L
12	Efftronics	1	1.75 L
13	Knoah Solutions	3	1.5 L
14	Miracle Solutions	1	2.4 L
15	CSS Corp	2	3 L
16	Cadeploy	5	1.2 L
17	Elico	22	1.8 L
18	TCS	2	1.5 L

NAAC - SELF STUDY REPORT

19	LG Soft	1	5.3 L
20	TPCIL	1	3 L
21	eClerx	10	3.5 L
22	Cadysys	4	1.2 L
23	Zen3	5	1.5 L
24	Tata BSS	3	1.9 L
25	SYNTEL	11	2.9 L
26	INPLENION	2	2 L
27	Medico	11	1.6 L
28	AGS Health	24	1.5 L
29	Sutherland Global Services	4	1.32 - 2.04 L
	Total	199	

B. Tech / B. Pharm / M.Tech / MCA PLACEMENTS DATA - COMPANY WISE FOR 2013-2014 BATCH

S.No.	Company Name	No. of Placed students	Salary Offered (Rupees)
1	ATOS	5	3.0 - 3.2 L
2	TedX	2	2.2 L
3	APPS FOR BB	1	1.2 L
4	GLENWOOD(L-CUBE)	6	1.8 - 2.2 L
5	NTT DATA	2	3.0 L
6	KRDS FACEBOOK	2	4.0 - 9.0 L
7	VIRTUSA	1	3.6 L

NAAC - SELF STUDY REPORT

8	SCRAPEHERE	3	1.8 L
9	ABHYAS HRD	4	1.8 L
10	Lucid Software	3	3.0 L
11	GENPACT	1	1.2 - 1.8 L
12	SPOORS Software	2	1.2 - 1.8 L
13	Mphasis	1	2.8 L
14	CHOICE SOLUTIONS	5	1.6 L
15	E4E	7	1.2 L
16	CSS CORP	6	2 L
17	TCS	3	3 L
18	SPOORS	2	1.2 L
19	CTS	8	3.07 L
20	HCL TECHNOLOGIES	3	1.52 L
21	CADEPLOY Engineering	9	1.2 L
22	INFOSYS	25	3.12 L
23	TECH MAHINDRA	15	3.07 L
24	ACROPETAL TECHNOLOGIES	1	3 L
25	EFFTRONICS	11	3 L
26	Mmodal global services	34	1.2 L
27	FSS SOFTWARE LTD	2	2.2 L
	Total	164	

Problems Encountered and Resources Required

As majority of the students are from the rural areas there is a need for enhancing the interpersonal skills among them. The college believes that by improving the employability among the students from rural back

NAAC - SELF STUDY REPORT

grounds we can bring drastic changes in the socio economic conditions of their respective families. Personality Development Programmes and motivational lectures are organized to build confidence in these students.

Best Practice - II

Title of the Practice : Research by Faculty Members

Objective

The main aim is to create a conducive environment for the conduct of research by establishing the necessary infrastructure, human resources and motivation to nurture the research competencies among the faculty members.

The Context

The college offers 6 UG and 6 PG degree programmes in various engineering departments. It is the responsibility of faculty members to inculcate effective learning methodologies in their students to understand various engineering concepts. To accomplish this, they need to be creative and innovative in their approach to teaching / learning activities and should possess holistic idea about the subjects what they taught, which requires some level of research competencies in the teaching faculty members.

The Practice

The Research and development inspires the faculty members to publish the research papers, attend national/ International conferences and to carry out consultancy work. Cash incentives are given to faculty members who successfully publish their research papers in National/ International journals.

Evidence of Success

The number of Ph.D., degree holders in the institution has increased considerably. There are 43 faculty members pursuing Ph.D in NRIIT. The results of above said practice increases the number of papers published by the faculty members. Many research project proposals have been submitted to various funding agencies.

Problem Encountered and Resources Required

The staff members are finding it difficult to find the time to carry out this type of activities due to their academic commitment. Laboratories, e-learning facility and computer aided packages are the required resources. The management is planning to construct staff quarters in the campus in the near future to enhance the research activity.

Best Practice III:

Title of the Practice: Social responsibility of Faculty and Students towards Society

NAAC - SELF STUDY REPORT

Objectives

To develop moral and ethical values among faculty and students, to imbibe education among faculty and students for upliftment of society, to inspire students and faculty of educationally deprived community, to develop social responsibility among students and faculty, to create harmony and peace among all sections of society.

The Context

To develop society, the institution has decided to educate the faculty and the students on social, ethical, moral values and value based system in the society. The need of the society is to develop young engineers with ethical values, entrepreneur skill and a bent of mind towards research and development. The research work carried out by the students and faculty should culminate in to a useful product to the society.

The Practice

The institution creates awareness among all the concerned by the following practices as mentioned. The institution conducts courses on yoga, stress management. The experts are invited to the institution for this purpose. Institution conducts NSS programs through organizing blood donation camps, tree plantation, and visit to rural areas and educate villagers about the evilness of untouchability.

It also understands the importance of learning throughout life and acquiring life skills and organizing cultural co-curricular programs, tours, visits and conferences to develop interpersonal skills, decision making etc. Institution also celebrates Teachers' Day, Engineers Day to commemorate the great contribution made by Dr. Sarve Palli Radha Krishna and Sir. M. Vishweshwaraiah respectively. Institution gives priority and concession in tuition fee to economically weaker students in deserving cases.

Institution has code of conduct for staff and students. Institution provides information about government aids freeship, scholarship, competitive examination to the students and to the faculty.

The Central Library is kept open beyond working hours.

Health camps are organized regularly among the faculty, students and staff. One village is adopted every year and students educate the villagers. Medical camps are arranged in the surrounding villages

Evidences of success:

With the above innovative practices adopted by the institution, the success rate in terms of pass percentage, employability and ethical and moral values

NAAC - SELF STUDY REPORT

has improved considerably. This practice of inculcating moral values and ethics helped our faculty and students in going to villages and educating the villagers to keep the village clean, follow sanitation, use purified drinking water, keep away from contagious diseases, etc., thus the institution to some extent transformed the life of common man in villages through their faculty and students.

Problems encountered:

Due to limited resource of the institution our faculty and students have not adopted more villages to do the above job. A separate budget if allocated by any agency will help the institution to do more meaningful work in the villages.

Contact Details

Name of the Principal : Dr C.Naga Bhaskar
Name of the Institution : NRI Institute of Technology
City : Vijayawada,
Pin Code : 520012
Accredited Status : In Progress
Work Phone : 0866-2469665
Fax : Nil
Website : www.nrigroupofcolleges.ac.in
E-mail : nrihitech@rediffmail.com
Mobile : 9390686868

NAAC - SELF STUDY REPORT

EVALUATION REPORT DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

1. Name of the Department : **Electronics and Communication Engineering**

2. Year of Establishment : **2008**

3. Names of Programmes / Courses offered:

S.No	Course	Specialization	Year of Establishment
1	U.G (B.Tech)	Electronics & Communication Engineering	2008
2	P.G (M.Tech)	Digital Electronics and Communication Systems	2013

4. Names of Interdisciplinary courses and the departments/units involved:

S. No	Interdisciplinary	Department Involved
1	a) Electrical Technology b) Network analysis c) Control systems d) Networks and Electrical Technology Lab	EEE
2	a) English – I b) Mathematics – I c) Mathematics – II d) Applied Physics e) Professional Ethics and Human Values f) English – II g) Mathematics – III h) Applied Chemistry i) Managerial Economics & Financial Analysis j) Management science k) Environmental Studies l) Intellectual Property Rights and Patents m) English - Communication Skills Lab -1 n) Applied/Engineering Physics Laboratory o) Applied/Engineering Physics Virtual	BS&H

NAAC - SELF STUDY REPORT

	Laboratory p) Engineering Workshop & IT Workshop q) Applied/Engineering Chemistry Laboratory r) English - Communication Skills Lab -2	
3	a) Computer Programming b) Object-oriented programming through C++ c) Data structures d) Computer Architecture and Organization e) C Programming Lab f) Object-oriented programming Laboratory	CSE
4	a) Engineering Drawing b) Engineering Mechanics	ME

Note: EEE - Electrical and Electronics Engineering Department
 CSE - Computer Science Engineering Department
 ECE - Electronics and Communication Engineering Department
 ME - Mechanical Engineering Department
 BS&H - Basic Sciences and Humanities

5. Annual/ semester/choice based credit system (Program wise):

S.No	Course	Branch	System
1	U.G	Electronics & Communication Engineering	Semester Based Credit System
2	P.G	Digital Electronics & Communication systems	Semester Based Credit System

6. Participation of the department in the courses offered by other departments:

NAAC - SELF STUDY REPORT

S.No	Courses	Courses offered to Departments
1	a) Basic Electronic Devices and Circuits b) Micro Processors and Microcontrollers c) Switching theory and logic design d) Pulse and digital circuits e) Linear Integrated and Digital circuits f) Micro Processors and Micro controllers Lab g) Electronic Devices and Circuits Lab	EEE
2	a) Digital Logic Design b) Data Communications c) Digital logic design lab	CSE & IT
3	Basic Electrical and Electronics Engineering	CE
4	a) Basic Electrical and Electronics Engineering b) Basic Electrical and Electronics Engineering lab	ME

7. Courses in collaboration with other universities, industries, foreign institutions, etc.:

S. No	Name of Course	Collaboration with Universities
1	Campus Placement Training	Andhra Pradesh State Skill Development Corporation
2	Project Skill Development Program	
3	Faculty Development Program	
4	MATLAB Software	ARK Info solutions
5	ANSIS HFSS	

8. Details of courses/programmes discontinued (if any) with reasons: **NIL**

9. Number of teaching posts:

Designation	Sanctioned		Filled	
	U.G	P.G	U.G	P.G
Professors	3	1	1	1

NAAC - SELF STUDY REPORT

Associate Professors	7	1	8	1
Asst Professors	22	2	24	1

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

S.No	Name	Qualification	Designation	Specialization	Total (Yrs) Experience
1	Dr.V.Vasudeva Rao	Ph.D.,M.Tech	Professor	Bio Medical Electronics	38
2	R. Sunitha	M.Tech(Ph.D)	Professor	Microwave Engineering	20
3	M.S.S.S.Srinivas	M.Tech(Ph.D)	Assoc. Prof	Communications & Radar Systems	17
4	S.V. Rama Rao	M.Tech(Ph.D)	Assoc. Prof	Instrumentation Control Systems	16
5	Abdul Rahiman.Sk	M.Tech(Ph.D)	Assoc. Prof	Microwave engineering	14
6	G. Srinivas Babu	M.Tech	Assoc. Prof	DECS	13
7	V. Srinivasa Rao	M.Tech(Ph.D)	Assoc. Prof	Communications	12
8	P. Venu Gopal	M.Tech	Assoc. Prof	VLSI System Design	12
9	M. Suneel	M.Tech(Ph.D)	Assoc. Prof	Embedded Systems	9
10	Y. Arpitha	M.E (Ph.D)	Assoc. Prof	Embedded System Design Methodologies	9
11	B. Swathi	M.Tech(Ph.D)	Assoc. Prof	DECS	8
12	Sk. Ashraf Ali	M.Tech	Asst. Prof	VLSI	8
13	Ch. Swathi	M.Tech	Asst. Prof	DECS	8
14	M.P. Kishore	M.Tech	Asst Prof	VLSI Design	8
15	R. Upendar Rao	M.Tech	Asst Prof	VLSI Design	8

NAAC - SELF STUDY REPORT

16	D. Ravi Shankar	M.Tech	Asst Prof	DECS	7
17	P.B. Sudha Rani	M.Tech	Asst Prof	Systems & Signal Processing	6
18	P. Amrutha Valli	M.Tech	Asst Prof	VLSI Design	6
19	M. Mahesh	M.Tech	Asst Prof	DECS	5
20	K. Prathyusha	M.Tech(Ph. D)	Asst Prof	Embedded Systems	5
21	M.Jaya Sri	B.Tech	Asst Prof	ECE	5
22	Ch. Uday Bhaskar	M.Tech	Asst Prof	VLSI System Design	4
23	N. Srikanth	M.Tech(Ph. D)	Asst Prof	VLSI System Design	4
24	T. Sumaltha	M.Tech	Asst Prof	VLSI & Embedded Systems	4
25	Ch. Swapna	M.Tech	Asst Prof	VLSI Design	3
26	A.Satti Babu	M.Tech	Asst Prof	Communication Systems	3
27	J. RajKumar	M.Tech	Asst Prof	Computer Networks	3
28	G.Sivarama Krishna	M.Tech	Asst Prof	VLSI & Embedded Systems	3
29	B. Sravani	M.Tech	Asst Prof	System& Signal Processing	2
30	B.Y. Gopinath	M.Tech	Asst Prof	Communication System	2
31	A.Bhavya	B.Tech	Asst Prof	ECE	2
32	P.R. Bhavana	M.Tech	Asst Prof	VLSI & Embedded Systems	1
33	A. Brahmani	M.Tech	Asst Prof	DECS	1
34	T. Nistchala	M.Tech	Asst Prof	DECS	1
35	G. Prashanthi	M.Tech	Asst Prof	Embedded Systems	1
36	J. Sowjanya	M.Tech	Asst Prof	VLSI Design	1
37	Y. Sravanthi	M.Tech	Asst Prof	DECS	1

NAAC - SELF STUDY REPORT

38	K.Thanuja	M.Tech	Asst Prof	ECE	1
-----------	-----------	--------	-----------	-----	---

11. List of Senior Faculty Visiting : NIL

12. Percentage of lectures delivered and practical classes handled (programme wise) by

Temporary faculty :

NIL

13. Student -Teacher Ratio (programme wise):

UG: B.Tech in Electronics and Communication Engineering:
- **15:1**

PG: M.Tech in Communication Engineering and Signal Processing:
- **12:1**

14. Number of academic support staff (technical) and administrative staff;

Sanctioned or filled:

S.No	Staff Designation	Sanctioned	Filled
1	Academic Support Staff	5	5
2	Administrative Staff	1	1

15. Qualifications of teaching faculty with D.sc/D. Lit/Ph.D/M. Phil/P.G:

S.No.	Qualification	Members
1	Ph.D	1
2	P.G.	36

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: National and International funding

NIL

However the following faculties have applied for funding agencies for projects and conduction of Seminars and Workshops.

NAAC - SELF STUDY REPORT

S.No	Name of the Funding Agency	Name of the Faculty	Name of the Project	Amount(Rs.)
1	SERB	S.V.Rama Rao	"Developing a hybrid gravitational search algorithm and genetic algorithm (HYBRID GSAGA) for enhancing the performance of smart antenna systems"	14,00,000
2	AICTE-AQIS App No: 3350055385	R.Sunitha	Two Day National Workshop on Advanced Video and Image Processing	3,75,500
3	AICTE-AQIS App No: 3349994242	M.S.S.S.Srinivas	Two day National level Symposium on Recent Advancements in ECE	4,18,500
4	AICTE-AQIS App no: 3348743342	Y.Arptha B.Swathi	FDP : Advanced Signal Processing & Bio medical Applications	5,77,000

17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants

Received : **NIL**

18. Research Centre /facility recognized by the University

: **NIL**

19. Publications: a)

NAAC - SELF STUDY REPORT

S.No	Faculty Name	Total No. of Papers Published	No. of the journals National/ International	No. of the Conferences National/ International	Avg of Impact Factor of journals
1	R. Sunitha	4	4	-	1.8
2	V. Srinivasa Rao	2	2	-	3.5
3	B Y Gopinath	2	2	-	0.75
4	D. Ravi Shankar	1	1	-	1.69
5	R. Upendar Rao	2	2	-	2.49
6	S. A. Rehman	1	1	-	1.92
7	K. Prathyusha	13	13	-	1.99
8	G. Srinivas Babu	4	4	-	1.84
9	M.S.S.S. Srinivas	8	8	3	1.81
10	Y. Arpitha	3	3	-	3.19
11	M. Suneel	2	2	-	1.9
12	S.V.Rama Rao	4	4	1	1.9
13	Ch.Swathi	1	1	-	
14	Sk.Ashraf Ali	1	1	-	

- No of publications listed in International data base (For Eg: Web of Science, Scopus, Humanities International Complete Database- International Social Sciences, Directory EBSCO host etc)

- **6 Scopus**

- Monographs (LAB MANUALS) -

11

- Chapter in books -

NIL

NAAC - SELF STUDY REPORT

- Books Edited -

NIL

- Books with ISBN/ISSN no with details of publications -

NIL

b)

S.N O	Faculty Name	Title of The Paper	Name of the journal	Month Year of Publicatio ns	ISSN No
1	R.Sunitha	An Enhanced Technique For Transferring The Image Using Wavelet SVD Mosaic Images Under Color Retrieval Mode	IJRCCT	Nov-2015	2278- 5841(0) 2320- 5156(P)
		Micro controller based heart beat, blood pressure and body temperature monitoring system using gsm modern	ISOR JECE	2014-15	2278- 2834 2278- 8735
		Namaskar robot-which provides service	IJEETC	2013-14	2319- 2518
		A Model Based Approach for human recognition by Robot	IJERT	2013-14	2278- 0181
2	V.SrinivasaRao	Resource Allocation For	IJSETR	2014-15	7854- 7858

NAAC - SELF STUDY REPORT

		Wireless Multicast Mimo-Ofdm Systems Using Waterfilling Algorithm			
		Efficacy of using sfbc based slm for paper reduction in mimo ofdm	IJRECE	2014-15	709-717
3	B Y Gopinath	EMD based ECG Signal De Noising Techniques	IJST	2014-15	176-180
		Concealed Weapon Detection Using Image Processing	IJECT	2014-15	13-17-180
4	D.RaviShankar	Design of Wallace Tree Multiplier By Sklansky	IJERA	2013-14	1036-1040
5	R.UpendarRao	Real Time Hand Gesture Detection And Recongition Robot Using Arm-7	JREEE	2014-15	12-17
		Development And Implementation Of Robotic Navigation Systems	IJEAT	2014-15	274-279
6	S.A.Rehman	Implementation of Windowing Technique For Minimizing The Side Lobes In	IJRST	2014-15	

NAAC - SELF STUDY REPORT

		Antenna Array Design			
7	K.Prathyusha	A Real-Time Irrigation Control System For Precision Agriculture Using WSN In Indian Agricultural Sectors	IJCSEA	2013-14	75-80
		Recent trends in FPGA Architecture For Testing the Data Path Using BSCAN,IJAIE M,	IJAIE M	2013-14	584-590
		Design of Embedded systems for the Automation of Drip Irrigation,	IJAIE M	2012-13	254-258
		RFID Based Autonomous Mobile Robotic Platform For Industrial Environment	IJESR	2012-13	303-313
		Wireless Camera Based Online Examination Security	IJERA	2012-13	1432-1435
		Wireless ECG Ssystem Based On Arm LPC 2103 Processor	IJECT	2012-13	115-119
		Novel Navigation Mobile Robot	IJAERS	2011-12	163-166

NAAC - SELF STUDY REPORT

		Implementation Based On RFID Navigation Sysytem			
		Design of Wearable Systems for Interactive Caption and Posture Recognition Using Wireless Sensor Network	IJETT	2013-14	1418-1423
		An Autonomous Self-Propelled Robot Designed for Obstacle Avoidance and Fire Fighting.	IJNTSE	Sep,2016	ISSN 2349
8	G.SrinivasBabu	Moving Object Detection Using MATLAB	IJERT	2011-2012	ISSN: 2278-0181
		Resource Allocation for Wireless Multicast MIMO-OFDM Systems using Water Filling Algorithm	IJRST	2013-14	ISSN: 2349-0845
		Efficacy of Using SFBC Based SLM for PAPR Reduction in MIMO - OFDM	IJRECE	2013-2014	ISSN: 2321-5593(Online) ISSN: 2321-032X(Print)
		Design of Web based Remote	IJTES	2010-2011	

NAAC - SELF STUDY REPORT

		Embedded Monitoring system			
9	M.S.S.S.Srinivas	Investigation of Dielectric Material Changes on the Performance of Multi band Inverted Triangular Serrated Aperture Patch Antenna	IJCSE	2012	2277-1956
		A Novel Compact CPW FED slot antenna with EBG Structure.	ARPN Journal of Engineering and applied Sciences	Feb 2015	1819-6608
		Bandwidth enhanced electromagnetic band gap structure structured closed ground monopole antenna	LEJP &T	Jan-June 2016	1583-1078
		Performance Analysis of Non-cooperative dispersed spectrum sensing in cognitive radio networks	IJEARST	DEC 2015	2278-2566
		A Defected Ground Structure	IJCST	2016	2321-0338(P) 2321-

NAAC - SELF STUDY REPORT

		Compact Fractal Antenna With Proximity Feed For Wide Band Applications			5589(o)
		Compact EBG Controlled Antenna With Defected Ground Configuration	IJCTA	2017	735-742(P)
		Comparative analysis of Bayesian PAPR Reduction Methods for OFDM-Based Massive	IJMTST	Feb,2017	2455-3778
10	Y.Arptha	Power Optimized BIST using Bit-Swapping and Cell Recording Technique	IJSETR	Nov 2014	2319-8885
		16*16 Multiplier Design Using Asynchronous Pipeline Based On Constructed Critical Data Path	IJSRE	Jan 2016	2321-7545
		Delay Reduction For Testing Using LPFRSE	IJRCCT	May 2016	2278-5841

NAAC - SELF STUDY REPORT

20. Areas of Consultancy and Income Generated: **NIL**

21. Faculty as Members in:

a) National Committees: -
NIL

b) International Committees: -
NIL

d) Editorial Board:-

S.No	Name of the Faculty	University/BOS	Status	Year
1	R.Sunitha	BOS(Autonomous)	Chairman	2003-06
			Member	2009-till date
2	M.S.S.S.Srinivas	ANU	Member BOS	2004-05

22. Student projects:

Year	Total no of Students	In House	In House %	Out Side	Out Side %
2016	141	109	77	32	23
2015	145	113	77	32	23
2014	147	115	78	32	22
2013	128	96	75	32	25
2012	64	56	87	8	13

23. Awards and Recognitions received by students:

S.NO	Name of The Student	Title of the event	Name of the Host	Award	Year
------	---------------------	--------------------	------------------	-------	------

NAAC - SELF STUDY REPORT

			Institute/College		
1	A.Keerthi Sai	Ms.Catwalk	NRIIT,Agiripalli	II	2017
2	M.Teja	Mr.Catwalk	NRIIT,Agiripalli	I	2017
3		Mr.SUNRISE			
4	M.Anusha	Ms.SUNRISE	NRIIT,Agiripalli	III	2017
5	V.Niharika	Ms.SUNRISE	NRIIT,Agiripalli	II	2017
6	P.Sindhura	Ms.SUNRISE	NRIIT,Agiripalli	I	2017
7	N. Preethi	Technical Quiz	NRIIT,Agiripalli	II	2017
8	S. H. Geethika	Technical Quiz	NRIIT,Agiripalli	II	2017
9	Ch. Manisha	Project Expo	NRIIT,Agiripalli	I	2017
10	M. Bhavani	Project Expo	NRIIT,Agiripalli	I	2017
11	G. Sai Kumar	Project Expo	NRIIT,Agiripalli	I	2017
12	G.Sai Kumar	Robo Race	NRIIT,Agiripalli	II	2017
13	K.Vinay Kumar	Robo Race	NRIIT,Agiripalli	I	2017
14	B.Vijnatha	Poster Presentation	NRIIT,Agiripalli	II	2017
15	M.Sai Prasanth	Paper Presentation	NRIIT,Agiripalli	II	2017
16	G.Karthik	DTMF Race	IIT Hyd	II	2017
17	T.Hari Rohit	Best Singer	Usha Rama	I	2017
18	T.Hari Rohit	Sur Lehari	Dhanekula	II	2017
19	G.Karthik	Yantrora	Lakkireddy Balireddy College of	I	2016

NAAC - SELF STUDY REPORT

			Engineering		
20	G.Karthik	Mouse Trap Racer	National Institute of Technology Warangal	II	2016
21	G.Karthik	Mobile Control Robotics	National Institute of Technology Warangal	I	2016
22	G.Karthik	Project Expo	Koneru Lakshmayya University	I	2016
23	G.Karthik	Robo War	Koneru Lakshmayya University	I	2016
24	G.Karthik	Project Expo	SRK Institute of Technology	I	2016
25	D.Pujitha	Circuitrix	NRI Institute of Technology	II	2016
26	K.S.Balateja	Circuitrix	NRI Institute of Technology	I	2016
27	Syed Ameenuddin	Project Expo	NRI Institute of Technology	II	2016
28	J.Surya Teja	Project Expo	NRI Institute of Technology	I	2016
29	Saba Sultana	Just A Minute	NRI Institute of Technology	II	2016
30	Ch.Sai Chand	Just A Minute	NRI Institute of Technology	I	2016
31	K.BeenaChoseen	Paper Presentation	NRI Institute of Technology	II	2016

NAAC - SELF STUDY REPORT

32	G.Mouinisha	Paper Presentation	NRI Institute of Technology	II	2016
33	M.Mounika	Paper Presentation	NRI Institute of Technology	I	2016
34	P.V.Sai Srikanth	GeneralQuiz	NRI Institute of Technology	I	2016
35	J.Lakshman Kumar	GeneralQuiz	NRI Institute of Technology	I	2016
36	G.Karthik	Tech Trix	Dhanekula Institute of Engineering & Technology	II	2016
37	G.Karthik	Project Expo	Prasad V Potluri Siddhartha Institute of Technology	I	2016
38	Priyanka	Advanture Robo Competitions	Jawaharlal Nehru Technological University Kakinada	I	2016
39	Raja Harsha	Advanture Robo Competitions	Jawaharlal Nehru Technological University Kakinada	I	2016
40	Y.Omkar Venu Gopal	Advanture Robo Competitions	Jawaharlal Nehru Technological University Kakinada	I	2016
41	Y.Omkar Venu Gopal	Circuitrix	Jawaharlal Nehru Technological University Kakinada	II	2016

NAAC - SELF STUDY REPORT

42	Ajay	Advanture Robo Competitions	Jawaharlal Nehru Technological University Kakinada	I	2016
43	R.Venkatesh	Advanture Robo Competitions	Jawaharlal Nehru Technological University Kakinada	I	2016
44	V.Mahesh	Circuitrix	Jawaharlal Nehru Technological University Kakinada	II	2016
45	V. Mahesh	Adventure Robot Competitions	Jawaharlal Nehru Technological University Kakinada	I	2016
46	R. V.Kalyan Varma	Adventure Robot Competitions	Jawaharlal Nehru Technological University Kakinada	I	2016
47	S.J.Kiran Teja	Adventure Robot Competitions	Jawaharlal Nehru Technological University Kakinada	I	2016
48	Sk.Ameer Sohal	Project Expo	Velagapudi Ramakrishna Siddhartha Engineering College	I	2016
49	R.Vasudev Kalyan Varma	ROBO-ZEST 2015	Indian Institutes of Technology Delhi	I	2015
50	Sk.P.MastanVali	ROBO-ZEST	Indian Institutes	I	2015

NAAC - SELF STUDY REPORT

		2015	of Technology Delhi		
51	K.Jitendra Datta	Robo Race	Jawaharlal Nehru Technological University Kakinada	I	2015
52	K.Jithendra Datta	Circuit Mania	Sri Sarathi Institute of Engineering & Technology	I	2014
53	G.Aparna	Circuit Mania	Sri Sarathi Institute of Engineering & Technology	II	2014
54	B.Sai Krishna	Circuit Designing and Debugging	Dhanekula Institute of Engineering & Technology	II	2014
55	B.Sundari	PPT	Potti Sriramulu Chalavadi Mallikarjuna Rao College of Engg College	II	2014
56	K.Jitendra Datta	Project Expo	SRK Institute of Technology	I	2014
57	Sk.Prasanna	PPT	Velagapudi Ramakrishna Siddhartha Engineering College	II	2013
58	N.N.S.Roopa	Robo Arena	Gudlalleru Engineering College	I	2013

NAAC - SELF STUDY REPORT

59	V.Sai Krishna	Robo Arena Race	Gudlavalleru Engineering College	I	2013
60	V.Sai Krishna	Project Expo	Prasad V Potluri Siddhartha Institute of Technology	Special	2012

Sports:

Awards in Sports :-

NIL

The following are the student participated in national level competitions

S.No	Year	Name of The Student	Event	Name of the Host Institution
1	2016-17	M.S.P.V.Niranjan	Archery	Krishna University, Machilipatnam
2	2016-17	G.Radhika	Hand Ball	Periyar University
3	2016-17	K.Naga Babu	Hand Ball	Periyar University
4	2016-17	B.Sai Kimar	Soft Ball	Mahatma Gandhi University, Kottayam, Kerala
5	2016-17	B.Lakshmi Kanth	Hand Ball	Periyar University
6	2015-16	M.S.P.V.Niranjan	Archery	Punjab University, Patiyala
7	2014-15	B.Lakshmi Kanth	Volley Ball	Gudlavalleru Engineering College
8	2013-14	G.Hruday Bhanu Reddy	Handball	Bharathidasan University, Tiruchirapalli.

NAAC - SELF STUDY REPORT

9	2012-13	K.Radha Krishna	Basket Ball	Gudlavalleru Engineering College
10	2011-12	M.Kiran Mounika	Swimming	University of Calcutta, Kolkatta
11	2011-12	P.Bhargavi	Swimming	University of Calcutta, Kolkatta
12	2010-11	M.Kiran Mounika	Swimming	University of Calcutta, Kolkatta

24. List of eminent academicians and scientists/ visitors to the department:

S.No	Name	Designation	Place	Purpose	Details
1	Dr.M.KamaRaju	HOD,ECE, IETE Chairman, Vijayawada	Gudlavalleru Engineering College	Guest Lecture	Guest Lecture on “Advances in VLSI Design” & Challenges”
				Student Interaction Program	Inaugural of IETE Student Forum
				Faculty Interaction Program	Scope in different areas of research in Low Power VLSI
2	Dr.Madhumati	HOD, ECE	Dhanekula Institute of Engineering & Technology	Judge for Projects	For B.Tech
3	Dr.N.S.Murthy	HOD, ECE	National Institute of Technology Warangal	Guest Lecture	Implementation of new programming concepts in DSP-VLSI Architecture
4	S.Manoj	Senior	Pantech	Workshop	Low Power

NAAC - SELF STUDY REPORT

		Project Engineer	Pro-Ed,Pvt Ltd, Chennai		VLSI using Tanner,EDA
7	Mr.U. Kumar	Project Engineer	Silicon Touch Technologies	Workshop	Three Day Workshop On “PCB Design”
8	R.Ravi Kumar	Program Manager	Tech-Mahindra Pvt Ltd, Hyd	Interaction With Students	Fresher’s Recruitment by Industry
9	Mohammed Naheed	Lead Campus Relations Officer	Classle Pvt Ltd, Chennai	Conference	NPTEL Courses utilization
10	Dr. T. V. Rao	HOD, ECE IETE Chairman, Vijayawada	Sir C.R.Reddy College of Engineering, Eluru	Chief Guest	Engineer’s Day
11	Mr.Govind Rao	Director	Microlink, Vijayawada	Workshop	Three Day Workshop On “Embedded Systems”
12	Anurag Thwvari	Research Associate	NRI Institute of Technology	International Workshop	Workshop on Humanoid Botics
13	M.L.Sai Kumar	Retired Director	NRI Institute of Technology	One day Seminar	Employability & Team Building Skills
14	Dr. Habibullah Khan	Professor	KL University	Judge	For Paper Presentation, Poster and Projects
15	Dr. G.Vijaya Lakshmi	Professor	Worked in JKC	Workshop	Male Violence Against Women
16	MS. Vidya Khanna	Philanthropist	Worked in Jana Sikshana Samstha	Workshop	Development of Entrepreneurship Skills in

NAAC - SELF STUDY REPORT

					Women
--	--	--	--	--	-------

25. Seminars/ Conferences/Workshops organized & the source of funding

S.No.	Date	Seminar/Conference/Workshop	Source of Funding	Resource Person
1	8/3/2017	A One Day Workshop on “Development of Entrepreneurship Skills in Women”	Management	Dr. G.Vijaya Lakshmi & MS. Vidya Khanna
2	19/02/2017	Tech Fest	Management	Dr. Habibulla Khan
3	23/01/2017	40 hours Course on ANSYS HFSS & MAT LAB	Self Financed	ARK Info Solutions Professionals
4	21/09/2016	Three Day Workshop On “Embedded Systems”	Self Financed	Mr. Govind Rao, Director , Microlink
5	06/09/2016	A Two Day Workshop on “Web Designing”	Self Financed	UDYOG
6	7/7/2016	Three Day Workshop On “PCB Design”	Self Financed	Mr. U. Kumar
7	12/8/2015	Two Day Workshop On Low Power VISI using Tanner EDA	Self Financed	Mr. S. Manoj & T. Sundar
8	7/2/2015	International Workshop On Humanoid Duties	Management	Mr. Anurag Thivari
9	5/7/2014	Guest Lecture on Trends in VLSI Design and DSP-VLSI Architectures	Management	Dr. N.S.Murthy, Professor, ECE Dept, NIT Warangal
10	29/06/2013	Faculty Interaction Programme	Management	Dr. M. Kama Raju, Prof & HOD ECE, GEC Gudlavalleru
11	29/06/2013	Inaugural of IETE Student Forum	Management	Dr. M. Kama Raju, Prof & HOD ECE, GEC Gudlavalleru.
12	1/3/2013	A 2-Day Workshop on VHDL	Management	MCN Technology
13	8/10/2012	Robotryst-2013	Management	Mr. Uma Shankar Yadav and
14	24-02-2012	ONE DAY WORK SHOP ON VLSI & EMBEDDED SYSTEMS	Management	Prof. M.B.SRINIVAS, Dean Academics

26. Students profile programme/course wise:

NAAC - SELF STUDY REPORT

Year	Name of the Course/ Programme	Seats Available	Seats Filled	Enrolled		Pass Percentage %
				M	F	
2008-2012	B.Tech	60	60	43	17	88.52
2009-2013	B.Tech	120	120	79	41	82.81
2010-2014	B.Tech	120	120	70	50	81.16
2011-2015	B.Tech	120	120	72	48	73.19
2012-2016	B.Tech	120	120	56	64	87.32

27. Diversity of Students

Name of the Course/Program	% of the students from the same state	% of the students of the other state	% of students of other abroad
B.Tech (ECE)	100	0	0
M.Tech (DECS)	100	0	0

28. How many students have cleared national and state competitive examinations such * as NET, SLET, GATE, PGECET, Civil services, Defense services, etc

GATE	9
PGCET	1

29. Student progression:

Student progression	2015-16	2014-15	2013-14	2012-13
UG to PG	5	5	3	2
PG to M. Phil. -	---	---	---	---
PG to Ph.D. -	---	---	---	---

NAAC - SELF STUDY REPORT

Ph.D. to Post-Doctoral	---	---	---	---
Employed	87	90	72	34
1.Campus selection				
2.Other than campus recruitment	10	7	4	2
Entrepreneurship/Self-employment	NA	NA	NA	NA
	NA	NA	NA	NA

30. Details of Infrastructural facilities

Library

a) Library

Plinth Area

No of Volumes

b) Internet facilities for Staff & Students

Wi-Fi enabled campus with internet facility of 20Mbps

c) Class rooms with ICT facility

ICT facility class rooms

S.No	Infrastructure	No. of Rooms	Facilities
1	No. of Class Rooms	9	Air conditioned class rooms, seminar halls, Tutorial rooms, LCD Projectors, live class rooms, Broadcasted from NIT & IIT's, State of art advanced laboratories.
2	No. of Tutorial Rooms	4	
3	Seminar Hall	1	

d) Laboratories:

S.No	Name of the Laboratory	Area	Exclusive/shared	Quality of laboratory instruments
1	Electronic Devices and Circuits Lab	100 Sq.mt	Sharing	Good
2	Electronic Circuit Analysis Lab	100 Sq.mt	Exclusive	Good
3	Pulse & Digital Circuits Lab	100 Sq.mt	Exclusive	Good

NAAC - SELF STUDY REPORT

4	LIC Applications Lab	100 Sq.mt	Sharing	Good
5	Analog & Digital Communications lab	119 Sq.mt	Exclusive	Good
6	Micro Wave & Optical Communication lab	119 Sq.mt	Exclusive	Good
7	Microprocessor & Micro controllers lab(hardware)	66 Sq.mt	Sharing	Good
8	Digital system Design &DICA lab (software)	100 Sq.mt	Exclusive	Good
9	Advanced Digital signal processing lab(DASP/DSP)	100 Sq.mt	Exclusive	Good

31. Number of students receiving financial assistance from college, university, government or other agencies:

S.NO	Category	No Of Students Received Financial Assistance			
		2015-16	2014-15	2013-14	2012-13
1	SC	61	58	55	61
2	ST	7	01	4	7
3	BC	132	171	151	132
4	EBC	91	180	144	91
5	Muslim Minority	4	20	14	4
6	Gate	---	---	---	----
7	College Assistance	3	21	14	3
	Total	298	451	382	298

32. Details of student enrichment programmes (special lectures / workshops / seminar) with external experts:

NAAC - SELF STUDY REPORT

S.No	Academic Year	Date	Name of the Topic	Organized by	Objective
1	2016-17	23/01/2017	40 hours Course on ANSYS HFSS	ECE Dept	Programming concepts in ANSYS HFSS
2	2016-17	23/01/2017	40 hours Course on MAT LAB	ECE Dept	Programming concepts in MAT LAB
3	2016-17	21/09/2016	Three Day Workshop On “Embedded Systems”	ECE Dept	To provide knowledge and skill to appreciate rapid changing scenario in Embedded Systems
4	2016-17	06/09/2016	A Two Day Workshop on “Web Designing”	ECE Dept	Basic Introduction in Java & HTML. Design of Web page
5	2016-17	7/7/2016	Three Day Workshop On “PCB Design”	ECE Dept	To learn PCB design and implement for ckts
6	2014-15	12/8/2015	Two Day Workshop On Low Power VLSI using Tanner EDA	ECE Dept	Software provides complete integrated analog design flow that is Flexible and easy to use
7	2014-15	7/2/2015	International Workshop On Humanoid Duties	ECE Dept	Multi Disciplinary concept with human computer organization, Activities on Robotics and Design

NAAC - SELF STUDY REPORT

8	2013-14	26/06/2013	Faculty Interaction Programme	ECE Dept	Scope in different areas of research
9	2013-14	26/06/13	Guest Lecture on “Advances in VLSI Design & Challenges”	ECE Dept	Future Challenges to met in designing low power high performance circuits
10	2013-14	29/06/2013	Inaugural of IETE Student Forum	ECE Dept	Inaugural of IETE Student Forum

33. Teaching methods adopted to improve student learning:

- Tutorial sessions
- Remedial Classes
- Group discussions
- Assignments
- Project Based Training Programs.
- National Program Technology Enhanced Learning Video Lectures
- Seminars
- Animations
- web information
- JNTUK Co-erd
- Software demo, Hardware demo
- Industrial visits
- Enrichment Program, Campus Placements
- Language Improvement Support

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

The Department in co-ordination with NSS NRI conducted the following events.

- Swatch Bharath program
 - Maintenance of classroom's & teaching aids.
 - Cleaning of official Premises
 - Cleaning of Common Places
 - Disposal of Garbage, bins
 - Cleaning of canteen
- Janma bhoomi program
 - Cleaning of water bodies in our college [drinking water plants]
 - Gardening
 - NSS NRI, along with the students including all years of engineering, organized a plantation drive in the campus planting about 200 saplings on the same day.
- Blood donation program
 - Blood donation camps will be organized every year in college with the association of Lion's Club of India, Vijayawada
- Flood relief fund program
 - A special drive to help the Hud-Hud Flood victims, where the collected material was sent to the victims with help of an NGO
 - Cloths, toys, books, medicines and other items of use are collected and sent to the victims through NGO.
- CM relief fund program
- Adoption of School
 - Funding was provided for repairs in Primary school at Kanasanapalli.

NAAC - SELF STUDY REPORT

- Games were conducted in the school & prizes were distributed.
- Importance of Yoga was discussed in the school and they are prepared to practice.
- Stationary Donation.
- Book Donation.
- Vidhyadaan

Fire-Fighting Camp:

- NSS NRI has organized a Fire Fighting demonstration and discussed the actions to take when a fire is discovered.
- The Three A's (Activate, Assist, Attempt)
- When to use a fire extinguisher?
- How to use a fire extinguisher.... P.A.S.S. (Pull, Aim, Squeeze, Sweep)

Medical camp:

- Medical Camp has been organized in a slum nearby.
- People from all age groups utilized the opportunity and expressed their happiness.
- Economically poor people were supplied with free medicines.
- Brought awareness about benefits on “medical well being” & “Healthy surroundings”.

35. SWOC analysis of the department and Future plans:

NAAC - SELF STUDY REPORT

STRENGTHS:

- Regularity and symphony in attendance among faculty and students.
- State of the Art Information & Communication Technology tools for encouraging better classroom engagement through seamless internet connectivity through Wi-Fi across the campus.
- Experienced, committed faculty with good teaming up skills & 100% ratified by the university (JNTUK).
- Active participation of Students and Faculty in guest lectures, workshops, seminars , research activities
- Well equipped laboratories
- Eminent professors/Scientists from reputed institutions/ organisations are associated with the department.

WEAKNESS:

- Curriculum not in sync with contemporary needs as syllabus is University-prescribed.
- Inadequate Interdisciplinary projects.
- Not as much of Industry- Institute Interaction
- Located in Rural hence Reaching is a time taking effort
- Consultancy needs to be strengthened.

DEPARTMENT ADVISORY COMMITTEE:

S.No	Name	Designation	Position in the Committee
1	Prof. R. Sunitha	HOD, ECE	Chair Man DAC
2	Dr. K. Sri Ramakrishna	Prof & HOD ECE, VRSEC, VJA	Academic Member
3	Dr. B.T.P. Madhav	Prof. ECE, K. L. University, VJA	Academic Member
4	B. V. Subba Rao	Manager, RADAR-II /ISRO/SDSC/SHAR/ Srihari kota	Industrial Member
5	N. Pavan Kumar	Manager/ ARK Info Solutions, Bangalore	Industrial Member

NAAC - SELF STUDY REPORT

OPPORTUNITIES:

- Close Interaction with Company for better collaboration and consultancy & Placement
- Young and talented faculty. More advantage for research and innovative practices.
- Orientation and faculty development programs for new faculty
- Applying for DST- FIST, UGC funds for enhancing the laboratories and projects
- Introduction of certificate courses & diploma courses to achieve skill development in students.
- Participation of students in extracurricular activities Internships and extracurricular activities
- Senior faculty having good contacts with eminent personalities from various educational industrial organisations.
- Brand Name of the institution for attracting students with good ranks to the institution.
- Opportunity for getting NBA and NAAC
- Establishment for center for excellence

CHALLENGES:

- Enhancing lab facilities to meet the requirements of quality research
- Making in-house interdisciplinary projects that reaches needs of the industries
- Conduction of International and National seminar, Conference every year.
- Motivating Students for the Publications and becoming entrepreneur.
- Increasing industry and institute interaction by calling professionals.

FUTURE PLANS:

- Interaction Industries

NAAC - SELF STUDY REPORT

- To introduce new Inter disciplinary and demand driven PG Specializations in the Department.
- To increase more number of publications from Staff and Students.
- Making UG and PG Students to publish at least one paper in Scopus Indexed journals during their study.
- To upgrade Department as research center and to become center for excellence in near future
- Applying for funded projects from various Organizations and reputed educational institutions
- To have Memorandum Of Understanding with various Organizations and Educational Institutions.
- Conduct more Guest lectures, Workshops, Seminars and Industrial visit at least once in a year .

NAAC - SELF STUDY REPORT

Evaluative Report of CSE Department

1. Name of the department: Computer Science and Engineering
2. Year of Establishment : 2008
3. Names of Programmes / Courses offered:

Sl.no	Name of the Programme	UG/PG	Year of Establishment
1	B.Tech./CSE	UG	2008
2	M.Tech./CSE	PG	2012

4. Names of Interdisciplinary courses and the departments/units involved:

Sl.No	Course	Department
1	English – I & II	Science & Humanities Department
2	Mathematics – I, II, & III	
3	Engineering Chemistry Theory & Laboratory	
4	Engineering Physics Theory & laboratory	
5	Professional Ethics and Human Values	
6	English - Communication Skills Lab – I & II	
7	IPR & Patents	
8	Environmental studies	
9	Mathematical Foundations of Computer Science	
10	Managerial Economics and Financial Analysis	
11	Probability & Statistics	
12	Engineering Mechanics	Mechanical Engineering Department
13	Engineering Drawing	
14	Engineering Workshop	

NAAC - SELF STUDY REPORT

15	Digital Logic Design	Electronics and Communication Engineering Department
16	Data Communication	

5. Annual/ semester/choice based credit system (programme wise):

Sl.No	Course	Annual/ semester/choice based elective system
1	B.Tech.	Semester and choice based elective system
2	M.Tech.	Semester and choice based elective system

6. Participation of the department in the courses offered by other departments:

Sl. No	Course	Department	Credits	Periods T/lab.
1	C Programming	Civil Engineering Department	4	5
2	C Programming	Electrical and Electronic Engineering Department	4	5
3	C Programming	Mechanical Engineering Department	4	5
4	C Programming	Electronics and Communication Engineering Department	4	5
5	C Programming Lab	Civil Engineering Department	2	3
6	C Programming Lab	Electrical and Electronic Engineering Department	2	3
7	C Programming Lab	Mechanical Engineering Department	2	3
8	C Programming Lab	Electronics and Communication Engineering Department	2	3
9	Data Structures	Electronics and Communication Engineering Department	4	5
10	Computer Architecture & Organization	Electronics and Communication Engineering Department	4	5
11	Java Programming	Electrical and Electronic Engineering Department	4	5

NAAC - SELF STUDY REPORT

12	Computer Networks	Electronics and Communication Engineering Department	4	5
13	Interactive Computer Graphics	Mechanical Engineering Department	4	5

7. Courses in collaboration with other universities, industries, foreign institutions, etc.: -Nil-

➤ **Certification courses in collaboration with other universities, industries, foreign institutions, etc..**

Sl.No	Name of the Courses	Industry/Company
1	Fundamentals of the java programming ,Language, java SE 6, 1.1 English Student kit	M/s. Oracle University
2	Java Programming Language, java SE 6, 1.1	
3	Oracle Database 11g Program with PL/SQL 2.0	
4	Web Component development with Servlets and JSPs,Java	
5	Java SE 7 Programming	
6	Microsoft Technology and Associate Training(MTA)	Microsoft Ed-Vantage Programme
7	Courses on Android, Java	Andhra Pradesh State Skill Development
8	Data Warehousing and Data Mining	Massive Open Online Courses(MOOCs)
9	Mobile Computing	

8. Details of courses/ programmes discontinued (if any) with reasons :
Nil.

9. Number of Teaching posts:

NAAC - SELF STUDY REPORT

	Sanctioned (As Per AICTE)			Filled		
	UG	PG	TOTAL	UG	PG	TOTAL
Professors	3	1	4	1	1	2
Associate	6	1	7	6	0	6
Assistant	18	4	22	28	5	33

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt.

/Ph.D. / M. Phil. etc.):

Sl. No	Faculty Name	Qualification	Designation	Specialization Area	No. of Exp. In Years
1	Dr. K. V. Sambasiva Rao	M.Tech., Ph.D.	Professor	Decision Support Systems	28
2	Dr. V. Suryanarayana	M.Tech., Ph.D.	Professor	Software Engineering	23
3	Mr.B.Mouleswara Rao	M.Tech. (Ph.D.)	Associate Professor	Data Mining	16
4	Mr. B. B. K. Prasad	M.Tech. (Ph.D.)	Associate Professor	Big Data	12
5	Mr. K. Vamsi Krishna	M.Tech. (Ph.D.)	Associate Professor	Cloud Computing	07
6	Mr. Ch. Surya Kiran	M.Tech. (Ph.D.)	Associate Professor	Software Reliability	09
7	Mrs. D. Suneetha	M.Tech. (Ph.D.)	Associate Professor	Cloud Computing	09
8	Mr. G. Karunakar	M.Tech.	Associate Professor	Computer Science & Engg.	08
9	Mr. SK. Mahaboob	M.Tech.	Assistant	Data Mining.	15

NAAC - SELF STUDY REPORT

	Basha	(Ph.D.)	Professor		
10	Mrs. M. Aruna Safali	M.Tech. (Ph.D.)	Assistant Professor	Big Data	07
11	Mrs. J. Praveena	M.Tech.	Assistant Professor	Computer Science & Engg.	10
12	Mr.P.Surendhra Varma	M.Tech.	Assistant Professor	Computer Science & Engg.	4
13	Mr. E. Karunakar	M.Tech.	Assistant Professor	Computer Science & Engg.	09
14	Mr. P. Raghuv eer	M.Tech.	Assistant Professor	Computer Science & Engg.	07
15	Mr. A. Hari Krishna	M.Tech.	Assistant Professor	Software Engineering	01
16	Mr. P. Narendra Babu	M.Tech.	Assistant Professor	Computer Science & Engg.	09
17	Mr. B. Dasaradha Ram	M.Tech. (Ph.D.)	Assistant Professor	Network Security	07
18	Ms. K. Radha	M.Tech.	Assistant Professor	Computer Networks	05
19	Mr. K. Mahendranath	M.Tech.	Assistant Professor	Computer Science & Engg.	02
20	Mrs. M. Seshu Bhavani	M.Tech.	Assistant Professor	Computer Networks	08
21	Mrs. P. Venkata Anusha	M.Tech. (Ph.D.)	Assistant Professor	Data Mining	04
22	Mr.P.Rajesh	M.Tech.	Assistant Professor	Computer Science & Engg	07
23	Mr. M V P Uma Maheswara Rao	M.Tech.	Assistant Professor	Computer Science & Engg.	07
24	Mrs. S. Sivaleela	M.Tech.	Assistant Professor	Computer Science & Engg.	07
25	Mrs. T. Radhika	M.Tech.	Assistant Professor	Computer Science & Engg.	05
26	Ms. Md. Arsha Sultana	M.Tech.	Assistant Professor	Computer Science & Engg.	00
27	Mrs. T. Saadiya	M.Tech.	Assistant Professor	Computer Science & Engg.	03
28	Ms. P. Sai Geetha	M.Tech.	Assistant Professor	Computer Science & Engg.	00

NAAC - SELF STUDY REPORT

29	Ms. Y. Kalyani	M.Tech.	Assistant Professor	Computer Science & Engg.	00
30	Mrs. B Naga Chandrika	M.Tech.	Assistant Professor	Computer Science & Engg.	01
31	Mrs. K.N.V.K. Durga Devi	M.Tech.	Assistant Professor	Computer Science & Engg.	03
32	Mr. Dudla Anil Kumar	M.Tech.	Assistant Professor	Computer Science & Engg.	6
33	Mr. Raja Bhargava	M.Tech.	Assistant Professor	Computer Science & Engg.	3
34	Mr. K. Dilli Babu	M.Tech.	Assistant Professor	Computer Science & Engg.	5
35	Mr. M. Ramakrishnam Raju	M.Tech.	Assistant Professor	Computer Science & Engg.	5
36	Ms. Priyanka Kanaparthi	M.Tech.	Assistant Professor	Computer Science & Engg.	3
37	Ms. Devarakonda Uma	M.Tech.	Assistant Professor	Computer Science & Engg.	0
38	Mr. Venendra Gottipati	M.Tech.	Assistant Professor	Computer Science & Engg.	3
39	Mrs. S.Anusha	M.Tech.	Assistant Professor	Computer Science & Engg.	2
40	Mr. Kotturi Naga Bhushanam	M.Tech.	Assistant Professor	Computer Science & Engg.	2
41	Mr. Nagaraju Borugadda	M.Tech.	Assistant Professor	Computer Science & Engg.	8
42	Mr. B. Bala Krishna	M.Tech.	Assistant Professor	Computer Science & Engg.	2

11. List of senior visiting faculty: Nil.

12. Percentage of lectures delivered and practical classes handled (programme wise) By temporary faculty: Nil.

13. Student -Teacher Ratio (programme wise):

- **B.Tech:** 15: 1
- **M.Tech:**12:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and Filled:

NAAC - SELF STUDY REPORT

Support Staff	Sanctioned	Filled
Technical staff	04	04
Administrative Staff	02	02

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG:

Sl.No	No. of Faculty With Ph.D	No. of Faculty With PG (M.Tech)
1	2	40

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Nil.

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received: -Nil-

- The CSE department received conference grant from DST as per the following details.

Sl.No	Name Of Faculty	Project Description	Funding Agency	Status of grant received
1	Dr.K.V.Sambasiva Rao	To conduct a two day national conference on next generation computing on 23 rd – 24 th December,2016	DST	Amount Sanctioned Rs.1,00,000

18. Research Centre /facility recognized by the University: NO

Though department is not officially recognized as a research center, but some of our faculty are recognized as supervisors by different universities. College is providing facilities for the supervisors and their research scholars to pursue their research. Following is the list of the research scholars and their supervisors.

NAAC - SELF STUDY REPORT

Sl.No	Name Of Supervisor	Name Of the Scholar	University	Degree	Area
1	Dr.K.V.Sambasiva Rao	Ms.K.S.Vijaya Lakshmi	JNTUK,Kakinada.	Ph.D	CSE
2	Dr.K.V.Sambasiva Rao	Mr.B.Jayana g	Acharaya Nagarajuna University, Vijayawada.	Ph.D	CSE
3	Dr.K.V.Sambasiva Rao	Ms.M.Rani.	Dravidin University,Kuppa m.	Ph.D	CSE
4	Dr.K.V.Sambasiva Rao	Mr.S.Ravi kiran	JNTUK,Kakinada.	Ph.D	CSE

19. Publications:

a) Publications per faculty

Sl. No	Faculty Name	National Journal	International Journal	National Conference	International Conference	Impact Factor
1	Dr. K. V. Sambasiva Rao	9	17	20	8	4.2
2	Dr. V. Suryanarayana	5	7	3	3	3.8
3	Mr.B.Mouleshwara Rao	1	3	1	1	3.5
4	Mr. B. B. K. Prasad	0	3	0	0	3.7
5	Mr. K. Vamsi Krishna	0	3	1	1	3.7
6	Mr. Ch. Surya Kiran	1	5	3	3	3.7
7	Mrs. D. Suneetha	0	7	1	0	3.7
8	Mr. G. Karunakar	0	3	0	0	3.5
9	Mr. SK. Mahaboob Basha	0	3	0	0	3.7
10	Mrs. M. Aruna Safali	0	7	2	0	3.7
11	Mrs. J. Praveena	0	4	1	0	3.5
12	Mr.P.Surendhra Varma	0	1	0	0	3.5
13	Mr. E. Karunakar	0	2	0	0	3.7
14	Mr. P. Raghuv eer	0	1	0	0	3.5

NAAC - SELF STUDY REPORT

15	Mr. A. Hari Krishna	0	0	0	0	Nil
16	Mr. P. Narendra Babu	5	2	2	0	3.7
17	Mr. B. Dasaradha Ram	0	4	0	0	3.8
18	Ms. K. Radha	0	1	0	0	3.5
19	Mr. K. Mahendranath Chowdary	0	1	0	0	3.5
20	Mrs. M. Seshu Bhavani	0	1	0	0	3.5
21	Mrs. P. Venkata Anusha	0	5	1	0	3.7
22	Mr.P.Rajesh	0	0	0	0	Nil
23	Mr. M V P Uma Maheswara Rao	0	3	1	0	3.7
24	Mrs. S. Sivaleela	0	2	0	0	3.5
25	Mrs. T. Radhika	0	1	0	0	3.5
26	Ms. Md. Arsha Sultana	0	1	0	0	3.5
27	Mrs. T. Saadiya	0	1	0	0	3.5
28	Ms. P. Sai Geetha	0	1	0	0	3.5
29	Ms. Y. Kalyani	0	0	0	0	Nil
30	Mrs. B Naga Chandrika	0	1	0	0	3.5
31	Mrs. K.N.V.K. Durga Devi	0	1	0	0	3.5
32	Mr. Dudla Anil Kumar	0	0	0	0	3.5
33	Mr. Raja Bhargava	0	0	0	0	3.5
34	Mr. K. Dilli Babu	0	0	0	0	3.5
35	Mr. M. Ramakrishnam Raju	0	0	0	0	3.5
36	Ms. Priyanka Kanaparathi	0	0	0	0	3.5
37	Ms. Devarakonda Uma	0	0	0	0	3.5
38	Mr. Venendra Gottipati	0	0	0	0	3.5
39	Mrs. S.Anusha	0	0	0	0	Nil

NAAC - SELF STUDY REPORT

40	Mr. Kotturi Naga Bhushanam	0	0	0	0	3.5
41	Mr. Nagaraju Borugadda	0	0	0	0	3.5
42	Mr. B. Bala Krishna	0	0	0	0	Nil
Average Impact Factor						2.33

b) Number of papers published in peer reviewed journals (National /International) by faculty and students: 112.

c) Number of publications listed in International Databases: Nil.

d) Monographs: Nil.

e) Chapter in Books: Nil.

f) Book Edited: Nil.

g) Book with ISBN/ISSN numbers with details of publishers: 01

h) Citation Index:

i) SNIP: Nil.

j) SJR: Nil.

k) Impact factor: 3.16

l) h- Index:

k) Laboratory Manuals:17

20.Areas of consultancy and income generated:

Sl.No	Type of Consultancy Provided	Company Name	Income generated	
			2015-16	2016-17
1	Conducting Online Examinations	TCS-ION	35,00,000	32,00,000

21.Faculty as members in a) National Committees: No

b) International Committees: No

c) Editorial Boards: No

22.Student projects

a) Percentage of students who have done in-house projects including inter departmental/programme

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies

NAAC - SELF STUDY REPORT

Year	Total No Of Students	No of Students who have done in house	In house%	No of Students who have done outside campus	Outside %
2015 – 2016	123	68	55.2	55	44.8
2014 – 2015	120	65	54.1	55	45.8
2013 – 2014	120	71	59.1	39	32.5
2012 – 2013	120	54	45	66	55

23.Awards / Recognitions received by faculty and students:

Faculty:

Sl.No	Name of the faculty	Award/Recognition	Awarded By	Year
1	Dr. K.V. Sambasiva Rao	WHO IS WHO IN THE WORLD	Marqui's International, New Jersey's	1998
2	Mr.B.Mouleswara Rao	Best Teacher	KLCollege of Engineering	2005
2	Dr. K.V. Sambasiva Rao	EMINENT EDUCATIONIST AWARD	Indus Foundation & FAPCCI, Govt. of	2013

Students Academics:

Sl.No	Name of the students	Award/Recognition	Awarded By	Year
1	K.Sai sree	Secured 2 nd Prize in Paper Presentation	V.R.Siddarta ha Engineering college.	2016

NAAC - SELF STUDY REPORT

2	Nanda Kishore	Secured 2 nd Prize in Code contest	VVIT.	2016
3	K.V.S.Sai Kalyan	Secured 1 st Prize in Designed a website	TechFest-16, National Level Technical Symposium conducted by Sir CR Reddy College of Engineering (Eluru)	2016
4	K.V.S.Sai Kalyan	Secured 1 st Prize for developing specified website modules	WebDesign event at TechFest-16, National Level Technical Symposium conducted by Sir CR Reddy College of Engineering (Eluru)	2016
5	K.V.S.Sai Kalyan	Secured 1 st Prize For presenting paper on Practical Approach to Artificial Intelligence	VR Siddhartha Engineering College	2016
6	K.V.S.Sai Kalyan	Secured 1 st Prize in Cracked programming contest	VVIT-Guntur on the occasion of Engineer's Day.	2016
7	K.Saketh,B.Vikram	Secured 1 st Prize in spot software contest,	NRIIT on the occasion of Engineer's Day.	2016
8	B.L.Bharathi,A.Meghana	Secured 2 nd Prize in spot software contest	NRIIT on the occasion	2016

NAAC - SELF STUDY REPORT

			of Engineer's Day.	
9	P.Anand,M.Saikrishna	Secured 3 rd Prize in spot software contest	NRIIT on the occasion of Engineer's Day.	2016
10	D.Harish,B.Pavan Kumar	Secured 1 st Prize in Paper presentation contest	NRIIT on the occasion of Engineer's Day.	2016
11	K.Bharat,K.Nagendra	Secured 2 nd Prize in Paper presentation contest	NRIIT on the occasion of Engineer's Day.	2016
12	D.K.Sanjana,K.Mehar Sri	Secured 3 rd Prize in Paper presentation contest	NRIIT on the occasion of Engineer's Day.	2016
13	K.V.S.Sai Kalyan	Secured 1 st Prize in C-Programming Contest event	LBRCE (Mylavaram) on National Level Technical Symposium, LAKSHYA-2K15	2015
14	K.V.S.Sai Kalyan	Secured 2 nd Prize in Cracked Technical quiz	TechFest-16, National Level Technical Symposium conducted by Sir CR Reddy College of Engineering (Eluru)	2015
15	M.Kavya	Secured 3 rd Prize in	LBRCE.	2015

NAAC - SELF STUDY REPORT

		CRUIZE competition		
16	M.Kavya	Secured 1 st Prize in web wizard competition	LBRCE.	2015
17	M.Kavya	Secured 2 nd Prize in TECHNICAL QUIZ	C.R.Reddy College of Engineering.	2015
18	K.Rohini, K.Jabeena Fathima	Secured 1 st Prize in Paper presentation	MIC College of Engineering.	2015
19	J.Naga Sai Hemanth	Secured 1 st Prize in Skill Adda Coding Through	Adda Online Competition	2015
20	M.Yaswanth Sai	Secured 1 st Prize in CRUIZE competition	LBRCE.	2015
21	K.V.S.Sai Kalyan	Secured 1 st Prize C-Programming Contest in National level Student Technical Symposium,	VALIANT conducted by Vishnu Institute of Technology (Bhimavaram).	2015
22	K.V.S.Sai Kalyan	Secured 1 st Prize in Cracked Spot-Software Contest	NRIT on the occasion of Engineer's Day	2015
23	K.V.S.Sai Kalyan	Secured 1 st Prize in Technical Quiz	NRIT on the occasion of Engineer's Day	2015
24	K.V.S.Sai Kalyan	Secured 1 st Prize in in Web-Wizards(Web Programming).	LBRCE(My lavaram) on National Level Technical Symposium, LAKSHYA-2K15	2015
25	N.Visawja, D.Renuka	Secured 2 nd Prize on Android Applications.	R.K College of Engineering.	2014

NAAC - SELF STUDY REPORT

26	K.Srujana	Secured 1 st Prize in Paper presentation	NRIIT.	2014
27	K.Rohini, K.Jabeena Fathima	Secured 1 st Prize in Paper presentation	Loyola Engineering College.	2014
28	K.Ramya durga	Secured 1 st Prize in Paper presentaion	NRIIT.	2014
29	J.Harish,	Secured 1 st Prize in QUIZ competition.	BAPATLA Engineering college	2014
30	K.Nagalakshmi	Secured 1 st Prize in QUIZ competition.	ANU College of Engineering	2014
31	Akhila	Secured 1 st Prize in Poster Presentation	NRI Institute of Technology.	2014
32	Mahathi	Secured 1 st Prize in QUIZ competition.	NRI Institute of Technology.	2014
33	K.Rohini,K.Jabeena Fathima	Secured 2 nd Prize in Paper presentation	NRIIT	2014
34	K.V.S.Sai Kalyan	Secured 1 st Prize in Paper presentation	NRIIT	2014
35	K.V.S.Sai Kalyan	Secured 3 rd Prize in Ad-making	Usha Rama College of Engineering	2014

Students Sports:

Sl.No	Name of the Student	Award/Recognition	Event	Year
1	D.Tejaswini	Participation Certificate	Handball tournament at Periyar, Salem,	2014-15
2	T.Ramya	Participation Certificate	Handball tournament at Periyar, Salem,	2014-15

NAAC - SELF STUDY REPORT

3	Ch. Greeshma Tinusha	Participation Certificate	Handball tournament at Periyar, Salem,	2014-15
4	A. Lakshmi Kanth	Participation Certificate	Handball tournament at Periyar, Salem,	2014-15
5	N.Dinesh	Appreciation Certificate	South Indian football at university of Kerala	2011-12

24. List of eminent academicians and scientists / visitors to the department:

Sl.No	Name of the Speaker	Topic	Date
1	Mr.D.Rama Krishna,MD,Efftronics systems,Pvt,Ltd.vijayawada	Next Generation Systems	23/12/2016
2	Capt.Dr.S.Santhosh Baboo,professor,DG Vaishnav college,Chennai	Cluster based segmentation methods for medical image	23/12/2016
3	Dr.B.V.Subba Rao,Professor,PVPSIT,Vijayawada	Prediction of crop intelligence attributes	23/12/2016
4	Mr.K.Dheeraj, Promoter ,Gurukul.	Significance of IOT & Artificial intelligence.	23/12/2016
5	Mrs.Layanaya,APSSDC.	Current Trends in IOT	23/12/2016
6	Mrs.Alekya,APSSDC.	Current Trends in IOT	23/12/2016
7	Mr.Veer Anjaneya Nagaraju,Big data minds	3 days Work shop on Hadoop and	12/9/2016 to 14/9/2016

NAAC - SELF STUDY REPORT

		Big data analytics	
8	Mr.Madhu Parvathaneni Entrepreneur / IoT Developer ORL Industries	3 days Work shop on IOT.	1/8/2016 to 3/8/2016
9	Mr.M.Ram Mohan,Cronux Technologies,Hyderabad	Seminar on SAP	2/4/16
10	Mr.Ch.Sai Sateesh.	Seminar on Malware Technology	4/3/2016 to 5/3/2016
11	Mr.Nivas,Team Campus Connect,Infosys.	Opportunities in present IT Industry	30/07/2016
12	Mr.Venkat Ramana Kuruhuri,Associate Vice President-HR.	Focus Insight Innovation	28/04/2015
13	Mr.Satya Thopalli,HR-Campus Recruitment.	Emerging Technologies	06/10/2014
14	Mr.Vijayan Srinivas,Zen3 Infosolutions(India)Limited.	Latest Trends in IT	22/11/2014
15	Mr.Durga Prasad,Recruitment HR,Mahindra Satyam	How to be best suited into IT	05/05/2011

25.Seminars/ Conferences/Workshops organized & the source of funding
a) National b) International

Sl.No	Seminars/Conferences/Workshops	Academic Year	Source of funding
1	National Conference on Next generation Computing.	2016-17	DST
2	Seminar on Graph Theory Applications	2016-17	Management
3	Seminar on Data Fusion In Big Data	2016-17	Management

NAAC - SELF STUDY REPORT

4	Seminar on Decision Support Systems	2016-17	Management
5	Seminar on Leadership Qualities	2016-17	Management
6	Seminar on Ethical Hacking.	2016-17	Management
7	Seminar on SAP.	2016-17	Management
8	Seminar on Malware Technology.	2016-17	Management
9	3 days Workshop on Hadoop and Big Data analytics.	2016-17	Management
10	3 days Workshop on IOT.	2016-17	Management
11	Faculty development program	2015-16	Management
12	Seminar on Industry Requirements	2015-16	Management
13	Seminar on Computer Applications	2015-16	Management
14	National Conference on Data Mining and emerging techniques.	2012-13	Management
15	Faculty development program on Teaching Methodologies.	2012-13	Management
16	Faculty development program on JAVA.	2012-13	Management

26. Student profile programme/course wise:

Sl.No	Programme / Course wise : B.Tech	Applications Received	Selected	Enrolled		Pass Percentage
				*M	*F	
1	2012-2016	120	123	41	82	82.93
2	2011-2015	144	115	58	59	76.52
3	2010-2014	144	119	60	59	83.19

*M = Male

*F = Female

Sl.No	Programme / Course wise : M.Tech	Applications Received	Selected	Enrolled		Pass Percentage
				*M	*F	

NAAC - SELF STUDY REPORT

1	2014-2016	29	27	8	19	74(20)
2	2013-2015	35	30	14	21	83.87(24)
3	2012-2014	18	17	9	8	15

*M = Male

*F = Female

27. Diversity of Students:

Name of the Programs	% of students from the same state	% of students from other States	% of students from abroad
B.Tech	100	NIL	NIL
M.Tech	100	NIL	NIL

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Year	GATE	GRE / GMAT	CAT	PGECET
2015-16	Nil	07	Nil	04

29. Student Progression

Providing the percentage of students progressing to higher education or employment (for the last four batches) highlight the observed trends.

Student progression	%			
	2012-2013	2013-2014	2014-2015	2015-2016
UG to PG	2.5	3.3	4.16	3.2
PG to M.Phil.	Nil	Nil	Nil	Nil
PG to Ph.D.	Nil	Nil	Nil	Nil
Employed • Campus selection(CS) • Other than campus recruitment(O)	4.16(O)	56.6(CS)	40.8(CS)	54.4(CS)

NAAC - SELF STUDY REPORT

Entrepreneurship/Self-employment	-	-	-	-
----------------------------------	---	---	---	---

30. Details of Infrastructural facilities

a) Department Library: Plinth Area: 52 sq. mts.

No. of Titles	51
No. of Volumes	64

b) Internet facilities for Staff & Students: Yes

- Wi-fi enabled in Campus.
- Internet Speed of 10 Mbps 1:1
- BSNL Leased Line, 20 Mbps Broad Band unlimited.
- 15 Mbps Orange net are available.

c) Class rooms with ICT facility: Yes

Room Type	No. of Rooms	Facility Available
Lecture Rooms	10	LCD Projectors, Internet and Computer
Tutorial Rooms	03	
Seminar Hall	01	LCD Projectors, Internet and Computer, Audio System

d) Laboratories

Sl.No	Name Of Laboratory	Area in Sq.m	No. of Systems
1	C & Data Structures LAB	100 Sq.m	70
2	Operating Systems & Compiler Design LAB	100 Sq.m	70
3	UNIX LAB	100 Sq.m	75

NAAC - SELF STUDY REPORT

4	HADOOP LAB	100 Sq.m	60
---	------------	----------	----

31. Number of students receiving financial assistance from college, university, Government or other agencies

Category	2015-16	2014-15	2013-14	2012-13
Government –SC Corporation	34	30	37	36
Government –ST Corporation	2	2	2	1
Government –BC Corporation	128	115	104	100
Government –EBC Corporation	206	200	175	83
Government –Minority Corporation	28	33	31	33
others	0	03	0	0
Total	398	380	349	253

32. Details on student enrichment programmes (special lectures / workshops /Seminar) with external experts:

Sl.No	Name of the Speaker	Topic	Date
1	Mr.Veer Anjaneya Nagaraju,Big data minds	3 days Work shop on Hadoop and Big data analytics	12/9/2016 to 14/9/2016
2	Mr.Madhu Parvathaneni Entrepreneur / IoT Developer ORL Industries	3 days Work shop on IOT.	1/8/2016 to 3/8/2016
3	Mr.M.Ram Mohan,Cronux Technologies,Hyderabad	Seminar on SAP	2/4/16
4	Mr.Ch.Sai Sateesh.	Seminar on Malware Technology	4/3/2016 to 5/3/2016
5	Mr.Nivas,Team Campus	Opportunities in	30/07/2016

NAAC - SELF STUDY REPORT

	Connect,Infosys.	present IT Industry	
6	Mr.Venkat Ramana Kuruhuri,Associate Vice President-HR.	Focus Insight Innovation	28/04/2015
7	Mr.Satya Thopalli,HR-Campus Recruitment.	Emerging Technologies	06/10/2014
8	Mr.Vijayan Srinivas,Zen3 Infosolutions(India)Limited.	Latest Trends in IT	22/11/2014
9	Mr.Durga Prasad,Recruitment HR,Mahindra Satyam	How to be best suited into IT	05/05/2011

33. Teaching methods adopted to improve student learning

- Although the diverse styles with which students learn are numerous, the inclusion of small number of techniques is done to impart better knowledge to them.
- The students are provided with state of the art infrastructure, technology and equipment required to carry on the teaching process in a more synchronized manner.
- The teaching methods adopted are well in consonance with the industry needs and are updated on a regular basis.
- Hands on experience in the respective fields is provided to the students in the form of online training programs, collaborative training with IBM, TCs, field trips, national and international conferences and workshops, remedial and tutorial classes, training for campus placement and aptitude, English labs for effective communication, seminars by in-house faculty and guest speakers etc.
- The skills and knowledge of the teachers are upgraded regularly to make them well verse with the latest industry trends so that they can impart knowledge of latest trends and techniques to the students through Faculty development programmes.

NAAC - SELF STUDY REPORT

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Strengthening practical experience for students in universities is essential to move social responsibility from theoretical base to effective change.

ISR	Year's	Extension Activities	Year's
Relief fund during National Calamities like Uttaranchal flood	2013	Blood Donation Camp	2015,2016
Women awareness programme	2016	Blood Grouping Camp	2015,2016
Awareness about diseases and Precautions	2016	Educating slum children	2011,2012,2016
Organizing Medical Checkup Camps	2011,2012,2016	Sensitization of school children towards Basic Science	2011,2012,2016
Health and hygiene awareness Programme	2011,2012,2016		

- These activities are conducted by the Institution and the Department on regular basis and all the Students and Faculty of the Department participate in them.

35. SWOC analysis of the department and Future plans

Strengths:

- Availability of well qualified and experienced faculty.
- Well equipped laboratories with latest systems and required software.
- Decent results with good placements
- Good final year projects which resulted in to publication
- Well Disciplined students
- Many of the faculties have membership & association in professional societies.

Weaknesses:

- Insufficient funding
- Publications in journals should be improved
- Need to be improve entrepreneurship intelligence/opportunities.

Opportunities:

- Academic Autonomy and Functional Autonomy so as to cater the need of industries by continuously updating the curriculum and facilities with the changing demands of market. The institution should plan to become Deemed University, centre of excellence in near future.
- Allowing students to participate AP State's Skill Development Program to enhance technical skills to develop mobile apps
- Entrepreneurship Development Centre to cater to the need of entrepreneurs
- Projects with Industry Govt. Organizations leading to R & D centre with the Institute.
- To explore new horizons in research work/studies.
- To get accredited by NAAC & NBA.

Challenges:

- Less employment opportunities
- Lack of Academic Autonomy: Dependence upon traditional university curriculum.
- Privatization of Professional Education.

NAAC - SELF STUDY REPORT

EVALUATION REPORT DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

1. Name of the department: **Electrical & Electronics Engineering**
2. Year of Establishment: **2008**
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

S.no	Course	Specilization	Year of Establishment
1	UG - B.Tech	EEE	2008
2	PG - M.Tech	Power Electronics and Drives	2013

4. Names of Interdisciplinary courses and the departments/units involved:

S.no	Course	Department
1	Environmental Studies	S&H
2	IPR&Patents	
3	Management Studies	
4	Managerial Economics & Financial Analysis	
5	Thermal & Hydro Prime Movers	ME
6	Thermal & Hydro Prime Movers LAB	
7	Basci electronic devices & circuits	ECE
8	Pulse & Digital Circuits	
9	Linear & Digital IC Applications	
10	Switching Theory & Logic Design	
11	Micro Processors & Micro Controllers	
12	Basic Electronics & Devices Lab	

NAAC - SELF STUDY REPORT

13	Micro Processors & Micro Controllers Lab	
14	Computer Organization	CSE
15	Oops Through Java	
16	UNIX & Shell Programming	
17	Data Base & Management Sytem	

5. Annual/ semester/choice based credit system (programme wise) :

- **UG: B.Tech** – Electrical and Electronics Engineering – Semester Wise Credit System
- **PG: M.Tech** – Power Electronics and Drives – Semester Wise Credit System

6. Participation of the department in the courses offered by other departments:

S.no	Course	Departments Offered
1	Basic Electrical & Electronics Engineering	CE
2	Basic Electrical & Electronics Engineering	ME
3	Eeelctrical technology	ECE
4	Networks Analysis	ECE
5	Control systems	ECE
6	Basic Electrical Engineering lab	ME
7	Networks & Electrical Technology Lab	ECE

7. Courses in collaboration with other universities, industries, foreign institutions, etc. **APSSDC**

S.No.	Name of the Course	Collaboration with other Universities/Industries/Foreign Institutions
1	Campus Training Program	APSSDC

8. Details of courses/programmes discontinued (if any) with reasons : **NIL**

NAAC - SELF STUDY REPORT

9. Number of teaching posts

Post	Sanctioned	Filled
Professors	01	01
Associate Professors	02	02
Assistant Professors	13	13

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

S.No	Name	Qualification	Designation	Specilization	No. of Years of Experience
1	Dr.N.Sambasiva Rao	B.Tech,M.Tech, Ph.D.	Professor & HOD	Electrical Power Systems	15
2	R.Raghunadha Sastry	B.Tech,M.Tech	Associate Professor	PE & Power Systems	8
3	K. Venkata Kishore	B.Tech,M.Tech	Associate Professor	Power Electronics	8
4	S. Bhavani	B.Tech,M.Tech	Assistant Professor	Power Systems	7
5	I. Prasanna Kumar	B.Tech,M.Tech	Assistant Professor	Power Systems	5
6	B. Edukondalu	B.Tech,M.Tech	Assistant Professor	Power Electronics	4
7	MA. Salma	B.Tech,M.Tech	Assistant Professor	Power Systems	6
8	Ch. Sabitha	B.Tech,M.Tech	Assistant Professor	Power Electronics	5
9	M.Padma	B.Tech,M.Tech	Assistant Professor	Power & Industrial Drives	1.5
10	S.Ramyaka	B.Tech,M.Tech	Assistant Professor	Power Electronics & Drives	1

NAAC - SELF STUDY REPORT

11	Y.Lalitha Kameshwari	B.Tech,M.Tech	Assistant Professor	Power Electronics	1
12	Hemasundar	B.Tech,M.Tech	Assistant Professor	Power Electronics	6
13	Sravan sai kumar	B.Tech,M.Tech	Assistant Professor	Power System automation	4.5
14	G.Chakrapani	B.Tech,M.Tech	Assistant Professor	Power Electronics	1
15	J.Venkata jayakrishna	B.Tech,M.Tech	Assistant Professor	Power Electronics	1
16	V.Lalitha	B.Tech,M.Tech	Assistant Professor	Control systems	3 Months

11. List of senior visiting faculty: **NIL**

12. Percentage of lectures delivered and practical classes handled (Programme wise) by temporary faculty: **0%**

13. Student -Teacher Ratio (programme wise):

- UG: B.Tech(EEE) : **15:1**
- PG: M.Tech(PE&D) : **12:1**

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Post	Sanctioned	Filled
Administrative staff	01	01
Academic Support Staff	03	03

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG.:

NAAC - SELF STUDY REPORT

Highest Qualification	Professor	Associate Professor	Assistant Professor	Total
Ph.D	1	0	0	16
PG	0	2	13	

16. Number of faculty with ongoing projects from National, International funding agencies and grants received: **NIL**

17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received: **NIL**

18. Research Centre /facility recognized by the University; **NIL**

19. Publications: annexure -1 enclosed

a) Publication per faculty:

Number of papers published in peer reviewed journals (national / international) by faculty and students

S.No.	Name	Designation	Journals		Conferences		Avg. Impact Factor
			National	International	National	International	
1	Dr.N.Sambasiva Rao	Professor & HOD	0	19	3	5	3.415
2	R.Raghunadha Sastry	Associate Professor	0	1	4	0	1.5
3	K. Venkata Kishore	Associate Professor	0	3	3	0	1.3
4	S. Bhavani	Assistant Professor	0	3	0	0	1.2615
5	I. Prasanna Kumar	Assistant Professor	0	2	3	0	1.1
6	B. Edukondalu	Assistant Professor	0	1	0	0	0.98
7	MA. Salma	Assistant Professor	0	2	0	0	1.1
8	M. Tejaswini	Assistant Professor	0	2	0	0	1.16
9	M.Padma	Assistant Professor	0	1	0	0	0.98

NAAC - SELF STUDY REPORT

10	S.Ramyaka	Assistant Professor	0	1	0	0	0.98
11	Y.Lalitha Kameshwari	Assistant Professor	0	5	1	5	1.6
12	V.Lalitha	Assistant Professor	0	1	0	0	1.2615

- Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) **68**
- Monographs-**NIL**
- Chapter in Books-**NIL**
- Books Edited - **NIL**
- Books with ISBN/ISSN numbers with details of publishers –**NIL**

20. Areas of consultancy and income generated: **NIL**

21. Faculty as members in: a) National committees b) International Committees c) Editorial Board

S.No.	Name of the Staff	Designation	Name of the journal
1	Dr.N.Sambasiva Rao	Editorial Board Member	International Journal of Computer and Information Technology (IJCIT) ISSN: 2279-0764
			International Journal of Electronics and Electrical Engineering (IJEEE) ISSN: 2301-380X.
			International Journal of Electrical Energy (IJOEE) ISSN:2301-3656.
			International Journal of Engineering Research and Technology (IJERT) ISSN: 2278 – 0181.

NAAC - SELF STUDY REPORT

			International Journal Scientific Engineering Research(IJSER)
			International Journal of Technology, Management and Humanities(IJTMH)

22. Student projects:

- (a) Percentage of students who have done in-house projects including inter Departmental/programme **80%**.
- (b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies **20%**.

23. Awards/ Recognitions received by faculty and students:

S.No.	Name of the Faculty / Student	Award / Recognition	From	Year
1	Dr. N. Sambasiva rao	Best Teacher Award	JNTUK	2014-15
2	Dr. N. Sambasiva rao	Best Researcher Award	JNTUK	2014-15
3	K.Bindhu Maheshwari	First Prize	Vikas College	2011-12
4	Ch.Lakshmi Kumari	First Prize	Vikas College	2011-12
5	B.M.N.S Deepthi	Second Prize	Brahmaiah college of Engineering, Nellore	2011-12
6	CH.Dileep	Second Prize	Rotary Club of Vijayawada	2011-12
7	M.Krishna Kanth	Second Prize	Rotary Club	2011-12

NAAC - SELF STUDY REPORT

			of Vijayawada	
8	Nagendra Babu.G	Second Prize	Rotary Club of Vijayawada	2011-12
9	Kumar.K	Second Prize	Rotary Club of Vijayawada	2011-12
10	P.Praveen Kumar	Second Prize	Rotary Club of Vijayawada	2011-12
11	K.Kundana	Second Prize	Vijaya Womens College	2012-13
12	G.Spandana	Second Prize	Vijaya Womens College	2012-13
13	R.Pravallika	Second Prize	Sir C R R College	2012-13
14	K.Poornima	Second Prize	Sir C R R College	2012-13
15	B.Yamini Dvya	Second Prize	Sir C R R College	2012-13
16	B.Sai Sindhura	First Prize	Usha Rama College	2014-15
17	Y.H.H.L.Sai Krishna	First Prize	MVR College	2014-15
18	Y.H.H.L.Sai Krishna	First Prize	ANU College	2014-15

NAAC - SELF STUDY REPORT

S.No	Date	Event	Resource Person	Source of Funding
1	23-08-2013	Seminar on Advanced Power Systems	B.P Singh	NRIT
2	30/01/2014	Seminar on Renewable Energy Sources	Sri. Kamaraju	
3	08/08/2014	Seminar on Advanced Power Electronic Drives	Smt.Surya Kalavathi	
4	17/12/2015	Work shop on MATLAB/SIMULINK	V. Naresh	
5	15/04/2016	Work Shop on Supervisory Control	G.Vinod Kumar	

26. Student profile programme/course wise:

Batch	Name of the Course/ Programme	Seats Available	Seats Filled	Enrolled		Pass Percentage
				M	F	
2008-12	UG (EEE)	60	60	43	17	84.62
2009-13	UG (EEE)	60	60	42	18	92.19
2010-14	UG (EEE)	60	60	38	22	88.57
2011-15	UG (EEE)	60	60	42	18	76.12
2012-16	UG (EEE)	60	55	32	23	75
2013-15	PG(PED)	18	18	9	9	
2014-16	PG(PED)	18	17	12	5	

27. Diversity of Students:

NAAC - SELF STUDY REPORT

Admitted Batch	Name of Course / Programme	% of Students From the Same State	% of Students From other States	% of Students From Abroad
2008-12	EEE	(66) 100%	(0) 0%	NIL
2009-13	EEE	(66) 98.48%	(1) 1.5%	NIL
2010-14	EEE	(66) 95.4%	(3) 4.5%	NIL
2011-15	EEE	(72) 97.2%	(2) 2.7%	NIL
2012-16	EEE	(72) 97.22%	(2) 2.777%	NIL

28. How many students have cleared national and state competitive examinations such as

NET, SLET, GATE, Civil services, Defense services, etc. ?

BATCH	GATE	TOFEL	GRE	CAT
2008-12	4	3	3	-
2009-13	2	3	3	-
2010-14	3	2	2	-
2011-15	-	3	3	-
2012-16	3	1	5	-

29. Student progression:

Student progression	Against % enrolled				
	2008-12	2009-13	2010-14	2011-15	2012-16
UG to PG	(1) 1.5%	(3) 4.5%	(7) 10.6%	(5) 6.9%	(8) 11.1%
PG to M.Phil	NIL	NIL	NIL	NIL	NIL
PG to Ph.D.	(1) 1.5%	NIL	NIL	NIL	NIL
Ph.D. to Post-Doctoral	NIL	NIL	NIL	NIL	NIL
Employed					

NAAC - SELF STUDY REPORT

Campus Selection	(22) 55.5%	(27) 67.5%	(24)60%	(26) 65%	(39) 78%
Other than Campus	(5) 7.5%	(11) 16.6%	(4) 6.06%	(10)15.15%	(6) 9.09%
Entrepreneurship/Self-employment	NIL	NIL	NIL	NIL	NIL

30. Details of Infrastructural facilities:

a) Library: Plinth Area: 60 Sq. ms.

Department	Electrical& Electronics Engineering
No. of Books	1697
No. of Titles	285

b) Internet facilities for Staff & Students:

Wi-Fi enabled Campus with Internet speed of **20 Mbps**

c) Class rooms with ICT facility: **YES**

Rooms	No of Rooms	Facilities Available
No. of Class Rooms	04	LCD Projector, Benches, fans, Tube lights, podium, Glass Board, Chalks & Duster,
No. of Tutorial Rooms	01	LCD Projector, Benches, fans, Tube lights, podium, Glass Board, Chalks & Duster,
Seminar Hall	01	LCD Projector, Air Conditioners, Tube Lights, Fans, Glass Board, White Board, Goose Neck Mic, Collar Mic, Good Quality PA system with Speakers

d) Laboratories:

Name of the Lab	Shared/ Exclusive	Labs Conducting	Floor Area Sq. m	Equipment
ELECTRICAL		ELECTRICAL		DC Shunt Motor

NAAC - SELF STUDY REPORT

MACHINES LAB	Shared	MACHINES-I	66	DC Compound Motor
				DC Shunt Motor Coupled To DC Shunt Generator
				DC Shunt Motor Coupled To Non-Salient Pole Alternator
				DC Shunt Motor Coupled To DC Series Generator
				Series Machines Coupled To Each Other
				MC Portable voltmeter
				MC Portable Ammeter
				Rheostats
	Non-Contact Tachometer			
	Shared	ELECTRICAL MACHINES-II	66	Three Phase Squirrel Cage Induction Motor
				Three Phase Slip Ring Induction Motor
				AC Synchronous Motor
				Single Phase Capacitor Start And Capacitor Run Induction Motor
				2KVA Transformers
				Three Phase Auto Transformers
				Single Phase Auto Transformers
Non-Contact Tachometer				
Resistive Loads				

NAAC - SELF STUDY REPORT

				Rheostats
				Digital Multimeters
				Wattmeter
				MI Portable Ammeter
				MI Portable Voltmeter
ELECTRICAL MEASUREMENTS LAB	Shared	ELECTRICAL MEASUREMENTS LAB	66	LVDT Trainer Kit
				Strain Gauge Bridge Trainer Kit
				Schering Bridge
				Anderson Bridge
				AC Bridge
				Calibration Of Dynamometer Type Power Factor Meter
				Calibration And Testing Of Single Phase Energy Meter
				Measurement Of Three Phase Reactive Power With Single Phase Wattmeter
				Measurement Of Power And Parameters Of A Choke Coil Using 3-Ammeter And 3-Voltmeter Method
				Crompton DC Potentiometer
				Kelvin Double Bridge
				Single Phase Cyclo Converter Kit
				Single Phase AC Voltage Controller Circuit Kit

NAAC - SELF STUDY REPORT

POWER ELECTRONICS LAB	Shared	POWER ELECTRONICS LAB	64	Single Phase Fully Controlled Bridge Converter Kit
				Single Phase Parallel Inverter Power Circuit Kit
				Single Phase Half Controlled Bridge Converter Kit
				Single Phase Series Inverter Circuit Kit
				Single Phase Dual Converter Kit
				Study Of Characteristics Of SCR,MOSFET,IG BT Kit
				Study Of SCR Firing Circuit Trainer Kit
				Forced Commutation Circuit Kit
				DC Jones Chopper Power Circuit Kit
				Three Phase Half Controlled Bridge Converter Power Circuit Kit\
CONTROL SYSTEMS LAB	Shared	CONTROL SYSTEMS LAB	66	Linear System Simulator Kit
				Characteristics Of Synchros Kit
				Transfer Function Of DC Motor Kit
				Effect Of P,PI,PID Controller Kit
				Lag And Lead Compensation Kit
				Characteristics Of Magnetic Amplifier Kit
				Characteristics Of

NAAC - SELF STUDY REPORT

				AC Servo Motor Kit
				Digital Multimeters
				Function Generator
				Servo Controlled Voltage Stabilizer
ELECTRICAL CIRCUITS LAB	Shared	ELECTRICAL CIRCUITS LAB	82.5	Super Position Theorem Kit
				Millmans Theorem Kit
				Maximum Power Transfer Theorem Kit
				25/5A Rheostats
				35/5A Rheostats
				40/5A Rheostats
				50/5A Rheostats
				18/8.5A Rheostats
				200/1.7A Rheostats
				100/2.8A Rheostats
				MIAC Portable Ammeter
				MIAC Portable Voltmeter
				Bread Boards
				Decade Resistance Box
Digital Multimeter				
POWER SYSTEMS LAB	Shared	POWER SYSTEMS LAB	60	Sequence impedances of 3 phase transformer specification kit
				Sequence impedances of 3 phase alternator by fault analysis kit
				Sequence impedances of 3 phase alternator by

NAAC - SELF STUDY REPORT

				direct method kit
				Dielectric strength of transformer oil kit
				ABCD parameters of transmission network transmission line type kit
				Calibration of Tong tester
				Power angle characteristics of 3phase alternators with infinite bus bars
POWER ELECTRONICS &DRIVES LAB	Shared	POWER ELECTRONICS AND DRIVES LAB	60	Operation of 3-phase Full Conveter on R & RL Load Kit
				Performance & Speed Control of DC Drive using 3-phase full converter Kit
				Performance & Operation of 4 quadrant chopper on Dc drive Kit
				Performance & Operation of 3 phase AC voltage controller on Motor load Kit
				Single phase IGBT based PWM Inverter on R &

NAAC - SELF STUDY REPORT

				RL Load kit
				Performance & Speed Control of 3 phase slip ring induction motor by Static rotor resistance controller Kit
				3 Phase PWM Pulse generation using PIC Micro controller Kit

31. Number of students receiving financial assistance from college, university, government or

Other agencies:

S.No	Category	2015-16		2014-15		2013-14		2012-13	
		No.	%	No.	%	No.	%	No.	%
1	SC	7	3.6	3	1.6	29	17	32	20.9
2	ST	0	0	0	0	2	1.2	5	3.2
3	BC	9	4.6	11	6.11	80	49	69	45
4	EBC	4	2.56	5	2.77	47	28	41	26
5	MUSLIM MINORITY	1	0.5	0	0	7	4.2	6	3.9
6	GATE	1	5.55	1	5.55	1	5.55	-	-

32. Details on student enrichment programmes (special lectures/workshops /seminar) with

External experts:

S.No	Event	Resource Person	Date
1	Guest Lecture on Wind Energy	Dr. Jagadish	15/07/2011
2	Guest Lecture on Power Saving	Sri.Srinivasa	10/08/2011

NAAC - SELF STUDY REPORT

		Rao	
3	Guest Lecture on Power Theft	Sri. Krishna Rao	16/09/2011
4	Guest Lecture on Roto Dyne	Sri. Abdul Sattar	01/11/2012
5	Work Shop on MATLAB/SIMULINK	Sri. V. Naresh	19/12/2012
6	Guest lecture on Thermal Power Station	P.D. Srinivas	02/02/2015

33. Teaching methods adopted to improve student learning:

NPTEL, Coeerd, LEARNING WARE, LCD PROJECTOR, OHP, Real time Systems examples, Industrial Tours

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

- Through NSS conducting awareness programs & helping the people working with good cause.
 - Blood Donation Camps
 - Clean & Green Programme
 - Solar initiation

S.No.	Date	Event	Conducted By	Venue
1.	20/10/2012	Blood Donation	NSS	NRIIT
2.	29/09/2013	Blood Donation	NSS	NRIIT
3.	28/08/2014	Clean & Green	NSS	NRIIT
4.	06/09/2014	Clean & Green	NSS	Agiripalli
5.	26/10/2015	Solar Initiation	EEE Department	NRIIT

NAAC - SELF STUDY REPORT

6.	20/09/2016	Blood Donation	NSS	NRIIT
----	------------	-------------------	-----	-------

35. **SWOC ANALYSIS** of the department and Future plans:

STRENGTHS

- The department has dedicated faculty who always strives hard and inspires Students to achieve their goals.
- The institute has been recognized as one of the best among all the colleges in the state of Andhra Pradesh.
- The department is well associated with the faculty of JNTUK in all its academic matters.
- Relatively better standard student intake.
- Qualified and experienced supporting staff and Teaching methodologies as per GATE and IES Syllabus.
- Continuous support and advice of Alumni to the present needy students.
- Good infrastructure and Library facilities as per academic standards
- Eco friendly and Pollution free Environment
- The institute is well known for quality education and discipline
- Good computation facility with necessary software
- Teaching methodologies as per GATE and IES Syllabus.

WEAKNESSES

- Inadequate research and consultancy.
- Less industry oriented training programs.
- No summer classes offered at graduate level.
- Because of tight schedule of class work, only a few faculties are permitted to participate in outside seminars/workshops/training programs.

OPPORTUNITIES

NAAC - SELF STUDY REPORT

- Department faculty has the capability to undertake research projects individually and in collaboration with inter-disciplinary faculty/ industrial experts.
- Growing demand for students of core departments.
- Possibility to attract the well qualified faculty as the department has been listed among the most reputed colleges in the state of Andhra Pradesh.
- Relatively better standard student intake leads to organize innovative and technological development activities.
- PG course in Power electronics and drives provides ample opportunities to the students to improve research activity.
- Increased global need for quality engineering graduates
- The college is conducting Placement drives for the jobs in industries every year and the students are placed at different areas of their Interest. More jobs particularly in electrical industry

CHALLENGES

- Gradual deterioration in the standards of incoming students
- Entry of foreign universities
- Number of students from rural areas with telugu medium background

FUTURE PLANS:

- To conduct national conference every year.
- To conduct faculty development programs with the help of UGC/AICTE
- International level symposiums for students to develop communication skills and leadership qualities.
- Planning to Collaborate with reputed Industries to improve the technical skills of students and staff.
- To activate Research & Development cell.

Evaluative Report of IT Department

1.Name of the department: INFORMATION TECHNOLOGY(IT)

2. Year of Establishment : 2008

3 .Names of Programmes /Courses offered:

S. No	Name Of The Program	U.G/P.G	Sanctioned Intake	Year Of Establishment
1	I.T	U.G	60	2008

4. Names of Interdisciplinary courses and the departments/units involved

S.No	Course	Department
1	English – I & II	Science & Humanities Department
2	Mathematics – I, II, & III	
3	Engineering Chemistry Theory & Laboratory	
4	Engineering Physics Theory & laboratory	
5	Professional Ethics and Human Values	
6	English - Communication Skills Lab – I & II	
7	IPR & Patents	
8	Environmental studies	
9	Mathematical Foundations of Computer Science	
10	Managerial Economics and Financial Analysis	
11	Probability & Statistics	
12	Statistics with R – Programming	
13	Engineering Mechanics	Mechanical Engineering Department
14	Engineering Drawing	
15	Engineering Workshop	

NAAC - SELF STUDY REPORT

16	Network Analysis	Electronics and Communication Engineering Department
17	Digital Logic Design	
18	Data Communication	

5 .Annual/ semester/choice based credit system (programme wise):

S.N	Course	Annual/ semester/choice based credit
1	B.Tech I, II ,III,IV YEARS	Semester Wise Credit System

6 .Participation of the department in the courses offered by other departments

S.No	Course	Department	Credits	Periods T/lab.
1	Data Structures	CSE	4	5
2	Computer Architecture & Organization	EEE	4	5
3	Java Programming	EEE	4	5
4	Computer Networks	ECE	4	5
5	Interactive Computer Graphics	MECH	4	5

7. Courses in collaboration with other universities, industries, foreign institutions, etc.: NIL

* The institution is offering the following certification programs in association with other MNC's, Organizations etc

S.No	Course	Industry/Company
1	Fundamentals of the java programming ,Language, java SE	M/s. Oracle University
2	Java Programming Language, java SE 6, 1.1 English	
3	Oracle Database 11g Program with PL/SQL 2.0	
4	Web Component development with Servlets and JSPs,Java	
5	Java SE 7 Programming	

NAAC - SELF STUDY REPORT

6	Microsoft Ed-Vantage Programme	Microsoft
7	Courses on Android, Java	(Andhra Pradesh State Skill Development)
8	Data Warehousing and Data Mining	Massive Open Online Courses(MOOCs)
	Mobile Computing	

8. Details of courses/ programmes discontinued (if any) with reasons:
NIL

9. Number of teaching posts

	Sanctioned (As Per AICTE)			Filled		
	UG	PG	TOTAL	UG	PG	TOTAL
Professors	1	-	1	1	-	1
Associate	2	-	2	2	-	2
Assistant	9	-	9	9	-	9

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt.

/Ph.D. / M. Phil. etc.,)

S.No	Faculty Name	Qualification	Designation	Specialization Area	No. of Exp. In Years	No. Ph.D Students Guided
1	Dr.Yalamanchili Sushma	M.Tech,ph.D	Professor	Information Security	20	0
2	Mr. V.Sudhakara Rao	M.Tech. (Ph.D.)	Associate Professor	Graph Theory	15	0
3	Mr. Ch.V.Murali Krishna	M.Tech. (Ph.D.)	Associate Professor	Recommender Systems	14	0
4	Mrs. M.Praveena	M.Tech.	Assistant Professor	Computer Science & Engg	8	0

NAAC - SELF STUDY REPORT

5	Mrs. S. Nahida	M.Tech.	Assistant Professor	Computer Science & Engg	8	0
6	Mrs. M.B.Anusha	M.Tech.	Assistant Professor	Computer Science & Engg	2	0
7	Mr.Y.N.S.Satyanarayana	M.Tech.	Assistant Professor	Computer Science & Engg	5	0
8	Mrs.CH. SanthaKumari	M.Tech.	Assistant Professor	Computer Science & Engg	3	0
9	Mrs.P.Naga Lakshmi	M.Tech.	Assistant Professor	Computer Science & Engg	1	0
10	Mr. B.Surya Prakash	M.Tech.	Assistant Professor	Computer Science & Engg	2	0
11	Mrs.P.Naga Sravanthi	M.Tech.	Assistant Professor	Computer Science & Engg	1	0
12	Mrs.P.Anuradha	M.Tech.	Assistant Professor	Computer Science & Engg	1	0

11. List of senior visiting faculty: NIL

12. Percentage of lectures delivered and practical classes handled (programme wise) By temporary faculty: NIL

13. Student -Teacher Ratio (programme wise)

Programme: UG [B.Tech]: 15:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and Filled

S.No	Staff	Sanctioned	Filled
1	Academic Support Staff	1	1
2	Administrative Staff	1	1

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

NAAC - SELF STUDY REPORT

S.No	No. of Faculty With Ph.D	No. of Faculty With PG (M.Tech)
1	1	11

20. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: NIL

21. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received: NIL

22. Research Centre /facility recognized by the University: NO

23. Publications:

a) Publication per faculty

S.No	Faculty Name	National Journal	International Journal	National Conference	International Conference	Impact Factor
1	Dr. Yalamanchili Sushma	2	6	6	0	3.8
2	Mr. V.Sudhakara Rao	0	2	0	0	3.5
3	Mr. Ch.V.Murali Krishna	0	2	1	0	3.5
4	Mrs. M.Praveena	0	1	1	0	3.2
5	Mrs. S. Nahida	0	2	0	0	3.2
6	Mrs. M.B.Anusha	0	5	0	0	3.8
7	Mr.Y.N.S.Satyana rayana	0	1	0	0	3.2
8	Mrs.CH. Santha Kumari	0	1	1	0	3.2
9	Mrs.P.Naga Lakshmi	0	1	0	0	3.2
10	Mr.B.Surya Prakash	0	1	0	0	3.2
11	Mrs.P.Naga Sravanthi	0	1	0	0	3.2
12	Mrs.P.Anuradha	0	1	0	0	3.2

NAAC - SELF STUDY REPORT

Number of papers published in peer reviewed journals (National /International) by faculty and students.18

Monographs: NIL

Chapter in Books: NIL

Books with ISBN/ISSN numbers with publishers: NIL

Citation Index: NIL

Impact factor: 3.4

h-index: NIL

Laboratory Manuals Published: 20

20. Areas of consultancy and income generated: TCS ION CENTER

S.No	Type of Consultancy Provided	Company Name	Income generated	
			2015-16	2016-17
1	Conducting Online Examinations	TCS-ION	35,00,000	32,00,000

- 21. Faculty as members in**
- a) National committees: No
 - b) International Committees: No
 - c) Editorial Boards: No

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental/programme

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies

YE A R	TOTAL NO OF STUDENT S	INHOUS E	INHOUSE %	OUTSID E	OUTSIDE %
2015 – 2016	60	60	100%	0	0
2014 – 2015	60	60	100%	0	0
2013 – 2014	60	60	100%	0	0

23. Awards / Recognitions received by faculty and students research

NAAC - SELF STUDY REPORT

awards received by the faculty

S.No	Name of the faculty	Award/Recognition	Awarded By	Year
1	Dr. K.V. Sambasiva Rao	WHO IS WHO IN THE WORLD	Marqui's International, New Jersey's	1998
2	Dr. K.V. Sambasiva Rao	EMINENT EDUCATIONIST AWARD	Indus Foundation & FAPCCI, Govt. of	2013

* Credentials are for DEAN (CSE,IT&MCA)

Publications and awards in inter institute events by students of the programme

S.N O	Name of the students	Award/Recognition	Awarded By	Academic Year
1	G.Saran Kumar	2nd Prize In Reverse Coding	Andhra Loyola Institute Of Engineering And Technology	2015
2	P.Sai Abhishek	ZEITGEIST 2K16	JNTUK	2015
3	S.V.P. Madhuri, K.V.Sai Radha Pranathi, P.Mounika	Coding Test	VXL IT ACADEMY	2015
4	G.Saran Kumar, N.Sandeep	2nd Prize In Technical-Snake And Ladder	Andhra Loyola Institute Of Engineering And Technology	2015
5	CH.Ajay Kumar, A.Tejasri,G.Swetha, G.Saran Kumar, N.Sandeep	3 rd Prize in Technical Quiz	Andhra Loyola Institute Of Engineering And Technology	2015
6	Ch.Ajay Kumar, N.Sandeep	1 st prize in Management	Andhra Loyola Institute of	2016

NAAC - SELF STUDY REPORT

		using IOT	Engineering and Technology	
7	Ch.Ajay Kumar, G.N.V.S.D.S.P.G.Sar an kumar, N.sandeep	1 st prize in Technical Quiz	Andhra Loyola Institute of Engineering and Technology	2016
8	G.N.V.S.D.S.P.G.Sar an kumar,	1 st prize in Power Point Presentation	NRI Institute Of Technology	2016
9	Y.Akhil Teja, N.Sandeep, G.N.V.S.D.S.P.G.Sar an kumar	Participation in Paper presentation	LBRC Engineerin g, Vijayawada, Andhra Pradesh	2016
10	B.surabhi , K.Navya	Participation in Bug Tracking In C	Potti Sriramulu Chalavadi mallikarao college of Engineering and technology, Vijayawada,	2017
11	T.Radhika	Participation in Quiz	Potti Sriramulu Chalavadi mallikarao college of Engineering and technology, Vijayawada,	2017
12	V.VeenaMadhui,Ch. Harika, A.Ramya,, Y.Mounika , A.Sindhuja	Participation in Blind-C	Viganan's University, Vadla mudi.	2017
13	P.J.Afreen,P.Likhitha njali,	Participation in Paper Presentation	Dhanekula Institute of Engineering and technology, Vijayawada,	2017

NAAC - SELF STUDY REPORT

	M.Sai, M.S.jaasmitha		Andhra Pradesh	
14	P.Likhithanjali,M.Sai, M.S.jaasmitha	Participation in Keyboard Deciphere	Dhanekula Institute of Engineering and technology, Vijayawada, Andhra Pradesh	2017
15	A.Ramya,Y.Mounika, A.Sindhuja	Participation in Break The Brick	Viganan's University,Vadla mudi	2017
16	A.Sindhuja	Participation in Technical Quiz	Dhanekula Institute of Engineering and technology, Vijayawada, Andhra Pradesh	2017
17	S.Heena	Participation in Coding Contest	PVP Siddhartha Institute Of Technology, Vijayawada, Andhra Pradesh	2017
18	S.Heena	Participation in Technical Quiz	PVP Siddhartha Institute Of Technology, Vijayawada, Andhra Pradesh	2017

NAAC - SELF STUDY REPORT

Sports:

S.No	Name of the Student	Award/Recognition	Event	Year
1	KASU PRATAP REDDY	PARTICIPATION	SOUTH ZONE INTER UNIVERSITY HANDBALL TOURNAMENT AT BHARATIDASAN UNIVERSITY	2013-2014
2	N.SANDEEP, G.N.V.S.D.S.P.G.SARAN KUMAR	PARTICIPATION	TECHNICAL SNAKE & LADDER ALIET, VIJAYAWADA, ANDHRA PRADESH	2016

24. List of eminent academicians and scientists / visitors to the department

S.No	Name of the Speaker	Topic	Date
1	Mr.D.Rama Krishna,MD, Efftronics systems,Pvt,Ltd.vijayawada	Next Generation Systems	2016
2	Capt.Dr.S.Santhosh Baboo,professor,DG Vaishnav college,Chennai	Cluster based segmentation methods for medical image	2016
3	Dr.B.V.Subba Rao,Professor,PVPSIT,Vijayawada	Prediction of crop intelligence attributes	2016

NAAC - SELF STUDY REPORT

4	Mr.K.Dheeraj, Promoter ,Gurukul.	Significance of IOT & Artificial intelligence.	2016
5	Mrs.Layanaya,APSSDC.	Current Trends in IOT	2016
6	Mrs.Alekya,APSSDC.	Current Trends in IOT	2016
7	Mr.Veer Anjaneya Nagaraju,Big data minds	3 days Work shop on Hadoop and Big data analytics	2016
8	Mr.Madhu Parvathaneni Entrepreneur / IoT Developer ORL Industries	3 days Work shop on IOT.	2016
9	Mr.M.Ram Mohan,Cronux Technologies,Hyderabad	Seminar on SAP	2016
10	Mr.Ch.Sai Sateesh.	Seminar on Malware Technology	2016
11	Mr.Nivas,Team Campus Connect,Infosys.	Opportunities in present IT Industry	2016
12	Mr.Venkat Ramana Kuruhuri,Associate Vice President-HR.	Focus Insight Innovation	2015
13	Mr.Satya Thopalli,HR-Campus Recruitment.	Emerging Technologies	2014
14	Mr.Vijayan Srinivas,Zen3 Infosolutions(India)Limited.	Latest Trends in IT	2014

NAAC - SELF STUDY REPORT

15	Mr.Durga Prasad,Recruitment HR,Mahindra Satyam	How to be best suited into IT	2011
----	---	----------------------------------	------

25. Seminars/ Conferences/Workshops organized & the source of funding

a) National b) International

S.No	Seminars/Conferences/Workshops	Academic Year	Source of funding
1	National Conference on Next generation Computing.	2016-17	DST
2	Seminar for student	2016-17	Management
3	Seminar for student	2016-17	Management
4	Seminar for student	2016-17	Management
5	Seminar for student	2016-17	Management
6	Seminar on Ethical Hacking.	2016-17	Management
7	Seminar on SAP.	2016-17	Management
8	Seminar on Malware Technology.	2016-17	Management
9	3 days Workshop on Hadoop and Big Data analytics.	2016-17	Management
10	3 days Workshop on IOT.	2016-17	Management
11	Faculty development program	2015-16	Management
12	Seminar for student	2015-16	Management
13	Seminar for student	2015-16	Management
14	National Conference on Data Mining and emerging techniques.	2012-13	Management
15	Faculty development program on Teaching Methodologies.	2012-13	Management
16	Faculty development program on JAVA.	2012-13	Management

NAAC - SELF STUDY REPORT

26. Student profile programme/course wise:

S.No	Programme / Course wise : B.Tech	No. of Students Sanctioned in I Year + II Year (LE's)	No. of Students Admitted in I Year + II Year (LE's)	% of students awarded with degree (Including supplies result)
1	2010-2014	66	55	42(76%)
2	2011-2015	66	51	35 (68%)
3	2012-2016	66	60	

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B.Tech	100	NIL	NIL

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Year	GATE	GRE / GMAT	CAT	Others
2015-16	03	02	Nil	Nil
2014-15	02	02	Nil	Nil
2013-14	02	02	Nil	Nil

NAAC - SELF STUDY REPORT

29. Student Progression

Student progression	%				
	2012	2013	2014	2015	2016
UG to PG	Nil	Nil	Nil	Nil	Nil
PG to M.Phil.	Nil	Nil	Nil	Nil	Nil
PG to Ph.D.	Nil	Nil	Nil	Nil	Nil
Employed • Campus selection(CS) • Other than campus	75	Nil	81	37	21

30. Details of Infrastructural facilities

a) Library: Plinth Area: 52 sq. mts.

No. of Titles	60
No. of Volumes	120
No. of Printed National Journals	08
No. of Printed International Journals	02
E-Journals	IEEE, Springer
Video Lectures	NPTEL(http://www.192.168.4.3/ntpl)

b) Internet facilities for Staff & Students: Yes

Wi-fi enabled in Campus. Internet Speed of 10 Mbps 1:1 BSNL Leased Line, 20 Mbps Broad Band unlimited, 15 Mbps Orange net are available.

c) Class rooms with ICT facility: Yes

Room Type	No. of Rooms	Facility Available
Lecture Rooms	03	LCD Projectors, Internet and Computer,
Tutorial Rooms	01	

NAAC - SELF STUDY REPORT

Seminar Hall	01	LCD Projectors, Internet and Computer, Audio System
--------------	----	---

d) Laboratories

S.No	Name of the laboratory	Area(sqm)	No. of Systems
1	Web Technologies lab	100	72

31. Number of students receiving financial assistance from college, university, Government or other agencies

Category	2015-2016	2014-2015	2013-2014	2012-2013
	Number	Number	Number	Number
Government SC Corporation	0	01	03	04
Government ST Corporation	0	00	00	00
Government BC Welfare Commission	17	17	28	30
Government From EBC Commission	61	58	51	53
Government -	02	02	02	01

NAAC - SELF STUDY REPORT

MINORITY Commission				
OTHERS	-----	-----	-----	-----
TOTAL	80	78	84	88

32. Details on student enrichment programmes (special lectures / workshops /Seminar) with external experts

S.No	Academic Year	Name of the Speaker	Topic
1	2016-17	Mr.Veer Anjaneya Nagaraju, Big Data Minds	3 days Work shop on Hadoop and Big Data Analytics
2	2016-17	Madhu Parvathaneni Entrepreneur / IOT Developer ORL Industries	3 days Work shop on Hadoop and Big data analytics
3	2016-17	Mr.Nivas,Team Campus Connect,Infosys	Opportunities in present IT Industry
4	2015-16	R. Mohan, Cronux Technologies, Hyderabad	Seminar on SAP
5	2015-16	Venkat Ramana Kuruhuri Associate Vice President – HR Zen3 Info solutions (India) Limited	Focus Insight Innovation
6	2015-16	Mr.Sai Sateesh.Ch	Seminar on Malware Technology
7	2014-15	Satya Thopalli HR - Campus Recruitment Tech Mahindra	Emerging technologies
8	2014-15	Vijayan Srinivas GM Zen3 Info solutions (India)	Latest Trends in IT

33. Teaching methods adopted to improve student learning

- Although the diverse styles with which students learn are numerous, the inclusion of small number of techniques is done to impart better knowledge to them.
- The students are provided with state of the art infrastructure, technology and equipment required to carry on the teaching process in a more synchronized manner.
- The teaching methods adopted are well in consonance with the industry needs and are updated on a regular basis.
- Hands on experience in the respective fields is provided to the students in the form of online training programs, collaborative training with IBM, TCs, field trips, national and international conferences and workshops, remedial and tutorial classes, training for campus placement and aptitude, English labs for effective communication, seminars by in-house faculty and guest speakers etc.
- The skills and knowledge of the teachers are upgraded regularly to make them well verse with the latest industry trends so that they can impart knowledge of latest trends and techniques to the students through Faculty development programmes.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Strengthening practical experience for students in universities is essential to move social responsibility from theoretical base to effective change.

ISR	Year's	Extension Activities	Year's
Relief fund during National Calamities like	2013	Blood Donation Camp	2015,2016

NAAC - SELF STUDY REPORT

Uttaranchal flood			
Women awareness programme	2016	Blood Grouping Camp	2015,2016
Awareness about diseases and Precautions	2016	Educating slum children	2011,2012,2016
Organizing Medical Checkup Camps	2011,2012,2016	Sensitization of school children towards Basic Science	2011,2012,2016
Health and hygiene awareness Programme	2011,2012,2016		

* These activities are conducted by the Institution and the Department on regular basis and all the Students and Faculty of the Department participate in them

35. SWOC analysis of the department and Future plans

Strengths:

- Availability of well qualified and experienced faculty.
- Well equipped laboratories with latest systems and required software.
- Decent results with good placements.
- Quality final year projects which result in publication.
- Well Disciplined students.

Weaknesses:

- Inadequate Financial aid for research.
- Publications in reputed Journals should be improved .
- Need to be improve entrepreneurship opportunities.

Opportunities:

- Academic Autonomy and Functional Autonomy so as to cater the need of industries by
Continuously updating the curriculum and facilities with the changing demands of market: Deemed University, centre of excellence.
- Allowing students to participate AP State's Skill Development Program to enhance technical skills to develop mobile apps
- Entrepreneurship Development Centre to cater the need of entrepreneurs
- Projects with Industry Govt. Organizations leading to R & D centre with the Institute.
- To explore new horizons in research work/studies

Challenges:

- Less employment opportunities
- Lack of Academic Autonomy: Dependence upon traditional curriculum.
- Privatization of Professional Education.

Objectives and expected results in terms of "Institutional strengthening and improvements in employability and learning outcomes of graduates".

Objectives:

- Strengthening Institution to produce high quality engineers for better employability
- To take up R&D projects from funding agencies like DST, UGC and AICTE
- Establishing Centers of Excellence for focused applicable research
- Training of faculty for effective Teaching
- Enhancing Institutional and System Management effectiveness

Improvements in teaching, training and learning facilities

- Enhanced R & D and institutional consultancy activities
- Faculty and staff development for improved competence
- Enhanced interaction with industry

NAAC - SELF STUDY REPORT

Evaluative Report of the Department Of CIVIL Engineering

1. Name of the Department : CIVIL Engineering

2. Year of Establishment : 2009-10

3. Names of Programmes / Courses offered

S.No.	Engineering / Technology			Sanctioned Intake	Year of Start
1	U.G.	B.E.	CIVIL	60	2009
			Engineering	120	2012
2	P.G.	M.E.	Structural Engineering	24	2014

4. Names of Interdisciplinary courses and the departments / units / subjects involved

i. U.G. - B.E. CIVIL Engineering

S.No.	Subjects	Semester	Department Involved
1	ENGLISH- 1 & 2	II	Science and Humanities
2	MATHEMATICS	II	Science and Humanities
3	ENGINEERING CHEMISTRY	II	Science and Humanities
4	PROBABILITY & STATISTICS	III	Science and Humanities (Mathematics)
5	BEEE	III	Electronics and Communication
6	MEFA	IV	Science and Humanities
7	FLUID MECHANICS	IV & V	Mechanical Engineering

NAAC - SELF STUDY REPORT

ii. P.G. - M.Tech. (STRUCTURAL ENGINEERING)

S.No.	Courses	Semester	Department Involved
1	Applied Probability and Statistics	I	Science and Humanities
2	Finite Element Method (FEM)	I	Mechanical Engineering

5. Annual / semester / choice based credit system (Programme wise)

S. No	Engineering / Technology			Annual / Semester Credit System
1	U.G.	B.E.	CIVIL Engineering	Semester Based Credit System
2	P.G.	M.E.	Structural Engineering	Semester Based Credit System

6. Participation of the department in the courses offered by other departments

Nil

7. Courses in collaboration with other universities, industries, foreign institutions, etc.

AP - SKILL DEVELOPMENT PROGRAM –

Technical training on on-site construction techniques - Practice

8. Details of courses/programmes discontinued (if any) with reasons: **NIL**

9. Number of Teaching posts

Cadre Wise Teaching Faculty	Academic Year 2016-17	
	Sanctioned	Filled
Professor	4	2
Associate Professor	6	6
Assistant Professor	18	22
Lecturer	-	-
Total	28	29

NAAC - SELF STUDY REPORT

10. Faculty profile with name, qualification, designation, specialization : AY 2016-17

S. NO.	NAME OF THE STAFF MEMBER	DESIGNATION	QUALIFICATION	SPECIALIZATION	EXPERIENCE
1	G.V. RAMANJANEYULU	Professor	M. Tech. (PhD)	Structures	22
2.	V. JAYARAM (Asst. Manager L & T)	Professor	M. Tech.	Structures	14
3	CH.CHANDRA SEKHARA SRINIVAS	Associate Professor	M. Tech. (PhD)	Structures	11
4	M. RAMACHANDRA RAO	Associate Professor	M. Tech.	Structures	28
5	B.V.S. PRASAD	Associate Professor	B.Tech., M.A (Eng)	Civil	16
6	K. BHASKARA RAO	Associate Professor	M.sc.(PhD)	Geology	8
7	MD. BIBI JARINA	Associate Professor	M.sc; M.Tech (Environment)	Environment	9
8	B. UDAYA SHANKAR	Associate Professor	M.sc., AMIE	Geo physics	9
9	S. PAVAN SRINIVAS	Assistant Professor	M.Tech	Structures	3
10	CH. VEEROTTAM KUMAR	Assistant Professor	M.Tech	Structures	5
11	M. KRISHNA KUMAR	Assistant Professor	M.Tech	Structures	5
12	R.H PHANINDRA	Assistant Professor	(M.Tech)	Structures	3
13	N. MADHAVA	Assistant Professor	M.Tech	Structures	3
14	S. SIVA RAMAKRISHNA	Assistant Professor	M.Tech	Structures	1

NAAC - SELF STUDY REPORT

15	L. SRIVARSHA	Assistant Professor	(M.Tech)	Structures	3
16	B. VINAYAKA	Assistant Professor	M.Tech	Transportation Engg.,	1
17	G. NANI BABU	Assistant Professor	M.Tech	Environment Engg.,	1
18	K. PRAVEEN KUMAR	Assistant Professor	M.Tech	Structures	2
19	B. BABY SAROJINI DEVI	Assistant Professor	(M.Tech)	Structures	1
20	K. DINESH	Assistant Professor	M.Tech	Structures	3
21	B. SAMBA SIVA RAO	Assistant Professor	(M.Tech)	Structures	1
22	M. KAMALA	Assistant Professor	(M.Tech)	Structures	1
23	U. SWETHA	Assistant Professor	(M.Tech)	Structures	1
24	K. SUMATHI	Assistant Professor	(M.Tech)	Structures	1
25	ASHA SEDEQ	Assistant Professor	M.Tech	Structures	2
26	N. VISWA SANTHI	Assistant Professor	(M.Tech)	Structures	4
27	A. ROHITHA SRI	Assistant Professor	M.Tech	Structures	1
28	V. RAMA TULASI	Assistant Professor	(M.Tech)	Structures	0
29	G. SAI RAMA KRISHNA DINESH	Assistant Professor	B.Tech	CIVIL	--

11. List of senior visiting faculty :

S.No	Name of the Visiting Faculty	Designation	Company/Institution
1	Mr. V. Janardhana rao	PRINCIPAL	SC railway training institute, VJA
2	Mr. D.S.S.SARMA	Retd., S.E, Irrigation	IRRIGATION

NAAC - SELF STUDY REPORT

3	Dr. S.R.Parimi	Professor, Structural engineer,	Vikasa vidhya vanam,
---	----------------	------------------------------------	----------------------

12. Percentage of lectures delivered and practical classes handled by temporary faculty : - 10%

13. Student -Teacher Ratio

i. U.G. - B.Tech. CIVIL ENGINEERING

S.No	Academic Year	Sanctioned Intake				Faculty Strength	Student - Teacher Ratio
		II Yr	III Yr	IV Yr	Total		
1	2016 – 2017	120	120	120	360	25	15:1

ii. P.G. - M.Tech. (STRUCTURAL ENGINEERING)

S.No	Academic Year	Sanctioned Intake			Faculty Strength	Student Teacher Ratio
		I yr	II yr	Total		
1	2016 – 2017	24	24	48	4	12:1

14. Number of academic support staff (technical) and administrative staff :

Description	2016 – 2017	
	Sanctioned	Filled
Technical Support Staff	7	7
Administrative Staff	1	1

15. Qualifications of teaching faculty with DSc / D.Litt / Ph.D / MPhil / PG

NAAC - SELF STUDY REPORT

Qualification	2015 – 2016	
	Sanctioned	Filled
P.G.	24	27
Ph.D.	4	2

16. Number of faculty with ongoing projects from National /International funding agencies and grants received: NIL

17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR, etc. and total grants received : -

18. Research Centre / Facilities recognized by the University : -

19. i. Publications :

Number of papers published in peer reviewed journals (national/international) by faculty and students:

1. S.Pavan1 , S. Krishna Rao2 “**Effect of Fly ash on Strength Characteristics of Roller Compacted Concrete Pavement**” (e-ISSN: 2278-1684,p-ISSN: 2320-334X, Volume 11, Issue 6 Ver. II (Nov- Dec. 2014), PP 04-08)
2. S.Pavan1 , S. Krishna Rao2 “**Study of properties of Roller compacted concrete**” ISBN-13/978-81-929195-0-8)
3. Kanagala Dinesh , DR.Chava Srinivas “**Influence of Super Plasticizer and Time Lag on Compressive and Flexural Strength of High Performance Concrete**” International Journal of Engineering Research & Technology (IJERT) IJERT ISSN: 2278-0181 IJERTV3IS090669 Vol. 3 Issue 9, September- 2014
4. Chimirala.ch.srinivas “**long-term durability studies of glass fibre reinforced concrete**” Published in sovenir of National level paper presentation contest (Technofest-07) organized by Dept of civil Engg., KLCE.
5. Chimirala.ch.srinivas “**Utilization of Fly ash in Prefabricated Building Components**” Published in sovenir of National level paper presentation

NAAC - SELF STUDY REPORT

contest organized by Dept of civil Engg., P.S.G Engineering College, Coimbatore.

6. Chimirala.ch.srinivas srinivas.pasupuleti “**Applications of GIS for flood mapping of upper vaigai basin, Tamilnadu**” submitted to National Conference – WMEC-2007 organized by JNTU, HYD.
7. K.satish kumar Chimirala.ch.srinivas “**Utilization of Incinerated Muncipal Solid waste ash in the manufacturing of Cement hollow Bricks**” proceedings of national conference “watershed management and impact of environmental changes on water resources” JNTU, HYD.
8. Chimirala.ch.srinivas srinivas.p “**Box and Jenkins model application for rainfall forecasting of saidapet rain gauge station, Chennai**” submitted to National Conference – WMEC-2007 organized by JNTU, HYD.

20. Areas of consultancy and income generated

D. BUILDING MATERIAL TESTING : Cement , Metal, Sand, Reinforcement Etc.,

E. STRUCTURAL DESIGNS : Residential; Commercial, Industrial Buildings

F. Building Construction Monitoring: Site Execution Consultancy Services.

G. 3RD Party Quality Control - Construction checking.

Client Organization	Title of Consultancy of project	Amount received (in Rupees)
TESTING OF FLYASH/ POND ASH	Material testing	16,000/-
CONTRACTOR	Structural design of apartment for g+5 storied building	12,750
PRI SUB -DIV ELURU	Mix design	4,200
TELANGANA GRID	M.s.pipe line design for railway crossing	8,500

NAAC - SELF STUDY REPORT

AP SPHC LTD.,	Material testing	13,800
AP SPHC LTD.,	Structural design of CI -Quarters at nellore	24,435
HEAL PARADISE	Material testing	16,650
AP SPHC LTD.,	Third party quality control checking of animal sheds	9,250
AP MSIDC	Concrete cubes testing in material testing labs	13,000
S.C RAILWAY	Concrete cubes testing in material testing labs	8,400

21. Faculty as members in

- a) National committees: Nil
- b) International Committees: Nil
- c) Editorial Boards....

22. Student projects

- i. **Percentage of students who have done in-house projects including inter departmental.**
- ii. **Percentage of students placed for projects in organizations outside the institution.**

Courses	2013-14		2014-15		2015 – 2016	
	I	O	I	O	I	O
B.Tech. CIVIL Engineering	65%	35%	75%	25%	75%	25%
M.Tech. STRUCTURAL	-	-	-	-	-	100%

I - Inter Departmental
Agencies

O - Research Laboratories / Industry / Other

NAAC - SELF STUDY REPORT

26. Student profile programme/course wise:

Academic Batch	Name of the Course/Programme (refer question no. 4)	Applications received	Selected	Enrolled		Course Completed Students	Pass percentage
				*M	*F		
2011 – 2015	UG (B.Tech)	71	71	59	12	53	74.64
2012 – 2016		125	125	105	20	90	72
2013 – 2017		129	129	90	39	In-Progress	In-Progress
2014 – 2018		148	148	101	46	In-Progress	In-Progress
2015 – 2019		150	150	109	41	In-Progress	In-Progress
2014 – 2016	PG (M.Tech)	12	12	8	4	-----	-----
2015 – 2017		13	10	7	3	In-Progress	In-Progress
2016 – 2018		12	12	6	4	In-Progress	In-Progress

*M = Male *F = Female

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
UG	99.8	0.2	0
PG	100	0	0

NAAC - SELF STUDY REPORT

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc., ?

Name of the Competitive Examinations	2012-2013	2013-2014	2014-2015	Total
CAT	-	-	1	1
GATE	1	2	2	5
NICMAR	4	6	4	14

29. Student Progression

Students Progression	2009-13	2010-14	2011-15	2012-16
UG to PG	-	30%	25%	20%
Campus selection/other than campus	35%	70%	75.0%	80%
Entrepreneurship/ Self-	-	-	-	

30. Details of infrastructural facilities : a) Central Library

S.No.	Descriptions	Quantity in Numbers	
		Titles	Volumes
1	Books for students circulation for CIVIL	Titles	667
		Volumes	1982
2	Department Library for Reference	Titles	88
		Volumes	126
3	Technical Journals	National	6
		International e-Journals	2 IEEE ACCESS
4	Technical Magazines	06	
5	News Papers	1	
6	Educational CDs (CBTs)	Available	
7	Power Point Presentations	Available	

NAAC - SELF STUDY REPORT

8	OHP	Available
9	Illustrative Charts/Models and	Physical Modeling

b) Internet facilities for Staff & Students 2016 -2017:

S.No.	Descriptions	Quantity in Numbers
1	Computers	125
2	Computer with Internet	85
3	Band Width	45 Mbps
5	Network Facilities for all Computers	125
6	Printers	3
7	Scanner	1
8	Web Camera	6

c) Class rooms with ICT facility 2016 – 2017

S.No	Descriptions	Number of Rooms
1	Class room with Black Board	8
2	Class room with Projectors	4
3	Class room with OHP	2

d) Laboratories for UG and PG 2016 -2017

S. No.	Name of the Laboratory	Students Capacity / Batch
1	STRENGTH OF MATERIALS LAB	35
2	SURVEYING FIELD WORK	35
3	CONCRETE TECHNOLOGY LAB	35
4	TRANSPORATATION ENGG., LAB	35
5	GEOTECHNICAL ENGG., LAB	35
6	FLUID MECHANICS LAB	35
7	ENVIRONMENTAL ENGG., LAB	35
8	GEOLOGY LAB	35

NAAC - SELF STUDY REPORT

9	GIS & CAD LAB	72
---	---------------	----

31. Number of students receiving financial assistance from college, university, government or other agencies

Received Financial		2015	2014	2013	2012	Total
Government	First Graduate	12	14	14	15	55
	SC / ST	6	7	8	9	30
	BC/MBC	22	28	26	19	95

32. Details on student enrichment programmes (special lectures /workshops / seminar)

Academic Year	Special Lectures / Workshops / Seminar	Title	Date	External Experts
2015 – 2016	Workshop	Total station – usage applications	17.8.2015	AMIGOS ARCHITECTS, HYD

33. Teaching methods adopted to improve student learning

Aiming at the effectiveness of the teaching learning process, the department facilitates the use of various teaching tools such as

- POWER POINT PRESENTATION
- NPTEL VIDEOS / NGC VIDEOS
- CASE STUDY METHODS
- GROUP DISCUSSIONS
- ROLE PLAYING
- INTERACTIVE GAMES

34. Participation in Institutional Social Responsibility (ISR) and

Extension activities The college has the following social welfare activities

- NSS activities
 1. Involving students as volunteers for conducting blood donation camps. –
- 100 STUDENTS PARTICIPATED
 2. Planted Saplings actively in “Vanam-Manam” program under the scheme of A.P. State Govt. -1 55 STUDENTS PARTICIPATED
 3. Donated & Established Drinking Water pipe line for one of the Govt. School in Kansanapalli. - 22 STUDENTS PARTICIPATED
 4. Donated books for School children for one of the Govt. School - 43 STUDENTS PARTICIPATED

35. SWOC analysis of the department and Future plans & Strengths

STRENGTH:

- Highly qualified and well experienced faculty in different specializations
- Well established lab with the latest equipments
- Staff members motivate the students in various activities
- Support to management
- Good support from management
- Excellent infrastructure facilities

WEAKNESS:

- Not good in communication since most of the students are from rural area

NAAC - SELF STUDY REPORT

- Lack of international collaboration for exchange of students/staff
- Students are lacking to carry out research activities
- Students coming from poor academic area

OPPORTUNITIES:

- Global job opportunities in the growing infrastructure sector
- Students conducting national level technical symposium to improve the leadership qualities
- Department organizing industrial visit to help the students to gain the practical exposure apart from theoretical knowledge.

CHALLENGES:

- To motivate students to develop a deeper sense of critical and analytical thinking and to cultivate in them an endeavoring passion to be conscious morally and socially.
- To encourage research aptitude amongst students and instill an innovation prone thought process.
- To setup a forum for the alumni whereby they can maintain regular contact with the college in the form of feedback as well as valuable contributions.

FUTURE PLANS

- Motivate and support more no. of faculty to pursue and complete doctoral degree.
- Obtain research centre recognition.
- Improve the no. of journal publications by faculty members.
- Improve the graduate success rate of students from the department
- To achieve NBA Accreditation Status for the Program
- To increase the no. of University Rank Holders

NAAC - SELF STUDY REPORT

Evaluative Report

Department of Mechanical Engineering

1. Name of the department: MECHANICAL ENGINEERING
2. Year of Establishment: 2011
3. Names of Programmes /Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

Course	Specialization	Year of Establishment
U.G - B.TECH	Mechanical Engineering	2011
P.G - M.TECH	Thermal Engineering	2014

4. Names of Interdisciplinary courses and the departments/units involved:

S.No	Inter Disciplinary Course	Department
1	English – I (B.Tech - I Year/I Sem.)	B.S & H
2	Mathematics – I (B.Tech - I Year/I Sem.)	
3	Engineering Chemistry (B.Tech - I Year/I Sem.)	
4	Engineering Mechanics (B.Tech - I Year/I Sem.)	
5	Environmental Studies (B.Tech - I Year/I Sem.)	
6	Engineering Chemistry Laboratory (B.Tech - I Year/I Sem.)	
7	English - Communication Skills Lab – I (B.Tech - I Year/I Sem.)	
8	English – II (B.Tech - I Year/II Sem.)	
9	Mathematics – II (Mathematical Methods) (B.Tech - I Year/II Sem.)	
10	Mathematics – III (B.Tech - I Year/II Sem.)	
11	Engineering Physics (B.Tech - I Year/II Sem.)	
12	Professional Ethics and Human Values (B.Tech - I Year/II Sem.)	
13	Engineering Drawing (B.Tech - I Year/II Sem.)	
14	English - Communication Skills Lab – II (B.Tech - I Year/II Sem.)	
15	Engineering Physics Lab (B.Tech - I Year/II Sem.)	
16	Engineering Physics – Virtual Labs (B.Tech - I Year/II Sem.)	
17	Engg. Workshop & IT Workshop (B.Tech - I Year/II Sem.)	

NAAC - SELF STUDY REPORT

	Sem.)	
18	Managerial Economics & Financial Analysis (B.Tech - II Year/I Sem.)	
19	IPR & Patents (B.Tech - III Year/I Sem.)	
20	Operations Research (B.Tech - III Year/II Sem.)	
21	Computer Programming (B.Tech - I Year/I Sem.)	C.S.E
22	C Programming Lab (B.Tech - I Year/I Sem.)	
23	Interactive Computer Graphics (B.Tech - III Year/II Sem.)	
24	Basic Electrical & Electronics Engineering (B.Tech - II Year/I Sem.)	E.E.E
25	Basic Electrical & Electronics Engineering Lab (B.Tech - II Yr. /I Sem.)	

NOTE:

E.E.E – Electrical & Electronics Engineering Department

C.S.E – Computer Science & Engineering Department

B.S & H – Basic Science & Humanities Department

5. Annual/ semester/choice based credit system (Programme wise):

Course	Specialization	Annual/Semester/Choice Based Credit System
U.G - B.TECH	Mechanical Engineering	Semester Wise Based Credit System
P.G - M.TECH	Thermal Engineering	Semester Wise Based Credit System

6. Participation of the department in the courses offered by other departments:

S. No.	Course	Department
1	Engineering Drawing (B.Tech - I Year)	ECE, EEE, CSE, IT, ME, CE
2	Engineering Mechanics (B.Tech - I Year)	ECE, EEE, CSE, IT, ME, CE
3	Thermal Hydro Prime Movers (THPM)	EEE

NAAC - SELF STUDY REPORT

	(B.Tech - II Year/I Sem.)	
4	Thermal Hydro Prime Movers Laboratory (THPM - Lab) (B.Tech - II Year/I Sem.)	EEE
5	Fluid Mechanics (B.Tech - II Year/I Sem.)	CE

7. Courses in collaboration with other universities, industries, foreign institutions, etc.:

S.No.	Name of the Course	Collaboration with other universities/Industries/Foreign institutions
1	Campus Placement & Training Program	APSSDC (Andhra Pradesh State Skill Development Corporation)

8. Details of courses/Programmes discontinued (if any) with reasons: NIL

9. Number of teaching posts

	Sanctioned	Filled
Professors	4	3
Associate Professors	8	9
Assistant Professors	24	24

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,)

SNO	NAME OF THE FACULTY	QUALIFICATION	DESIGNATION	SPECIALIZATION	NO.OF YEARS EXPERIENCE
1	Dr. C. NAGA BHASKAR	M.TECH., Ph.D	PROFESSOR	THERMAL ENGINEERING	24 YEARS
2	Dr.PRASADA RAO KANCHERLA	M.TECH., Ph.D	PROFESSOR	I.E	15 YEARS
3	Mr.C.V. SRI RAM	M.TECH (Ph.D)	PROFESSOR	MACHINE TOOLS	20 YEARS
4	Mr. R.VIJAY KRISHNA	M.TECH	ASSOCIATE PROFESSOR & HOD	CAD/CAM	10 YEARS
5	Mr. G.V.N B PRABHAKAR	M.TECH (Ph.D)	ASSOCIATE PROFESSOR	THERMAL ENGINEERING	10 YEARS
6	D.SREE RAM PRASAD	M.TECH	ASSOCIATE PROFESSOR	THERMAL ENGINEERING	17 YEARS

NAAC - SELF STUDY REPORT

7	Mr. G.S.R.N MALLESWARA RAO	M.TECH	ASSOCIATE PROFESSOR	PRODUCTION ENGG	9 YEARS
8	Mr. V. SRIRAMA MURTHY	M.TECH	ASSOCIATE PROFESSOR	MACHINE DESIGN	6 YEARS
9	Mr. J.S. SURESH	M.E (Ph.D)	ASSOCIATE PROFESSOR	INDUSTRIAL ENGG	10 YEARS
10	Mr. K. MANI KUMAR	M.TECH (Ph.D)	ASSOCIATE PROFESSOR	CAD/CAM	14 YEARS
11	Mr. T. RAJENDRA PRASAD	M.TECH (Ph.D)	ASSOCIATE PROFESSOR	PRODUCTION ENGG.	12 YEARS
12	Mrs. K.VIDYA	M.TECH (Ph.D)	ASSOCIATE PROFESSOR	IEM	12 YEARS
13	Mr. V.MOHAN MANOJ GUPTA	M.E (Ph.D)	ASSISTANT PROFESSOR	MACHINE DESIGN	5 YEARS
14	Mr. O N V P BHAGAVAN	M.TECH	ASSISTANT PROFESSOR	MECHATRONICS	4 YEARS
15	Mrs. P. BHARATHI	M.TECH (Ph.D)	ASSISTANT PROFESSOR	MATERIAL TECHNOLOGY	5 YEARS
16	Mr. SK. ABDUL AZEEZ	M.TECH	ASSISTANT PROFESSOR	THERMAL ENGINEERING	2 YEARS
17	Mr. K. VENKATESWARA REDDY	M.TECH	ASSISTANT PROFESSOR	MACHINE DESIGN	2 YEARS
18	Mr. Y. VENKATESH	M.TECH	ASSISTANT PROFESSOR	MACHINE DESIGN	2 YEARS
19	Mr. CH. NAVEEN KUMAR	M.TECH	ASSISTANT PROFESSOR	THERMAL ENGINEERING	2 YEARS
20	Ms. A. MADHURI	M.TECH	ASSISTANT PROFESSOR	THERMAL ENGINEERING	2 YEARS
21	Mr. MD. NAZEER	M.TECH	ASSISTANT PROFESSOR	CAD/CAM	2 YEARS
22	Mrs. K. ANUSHA RAJ	M.TECH	ASSISTANT PROFESSOR	INDUSTRIAL METALLURGY	2 YEARS
23	Mr. N. RAJA SEKHAR	M.TECH	ASSISTANT PROFESSOR	MARINE ENGG.	1 YEAR
24	Mr. N. SYAM BABU	M.E (Ph.D)	ASSISTANT PROFESSOR	MACHINE DESIGN	4 YEARS
25	RAYALA PRASAD	M.TECH (Ph.D)	ASSISTANT PROFESSOR	MACHINE DESIGN	4 YEARS
26	Mr. VENKATESWARA RAO SARNALA	M.TECH	ASSISTANT PROFESSOR	THERMAL ENGINEERING	1 YEAR
27	Mr. N.SHANMUKH VEERENDRA	M.TECH	ASSISTANT PROFESSOR	THERMAL ENGINEERING	1 YEAR
28	Mr.K.NAGA RAJU	M.TECH	ASSISTANT PROFESSOR	THERMAL ENGINEERING	1 YEAR
29	Mr.G.GOPI CHAND BABU	M.TECH	ASSISTANT PROFESSOR	THERMAL ENGINEERING	2 YEARS
30	Ms.N.SIVA NAGAMANI	M.TECH	ASSISTANT PROFESSOR	MACHINE DESIGN	1 YEAR
31	Mr.K.V.G PRAVEEN	M.TECH	ASSISTANT PROFESSOR	CAD/CAM	3 YEARS
32	Ms.A.HEMA DEVI	M.TECH	ASSISTANT PROFESSOR	MACHINE DESIGN	1 YEAR
33	Mr.P.PAVAN KUMAR	M.TECH	ASSISTANT PROFESSOR	CAD/CAM	1 YEAR

NAAC - SELF STUDY REPORT

34	Mr. T.SUBBA REDDY	M.TECH	ASSISTANT PROFESSOR	CAD/CAM	1 YEAR
35	Mr.K.KARTEEK REDDY	M.TECH	ASSISTANT PROFESSOR	MACHINE DESIGN	2 YEARS
36	Mr.S.RAJA SEKHAR	M.TECH	ASSISTANT PROFESSOR	MACHINE DESIGN	2 YEARS

11. **List of senior visiting faculty:** Mr.C.V.SRI RAM, Professor

12. **Percentage of lectures delivered and practical classes handled (Programme wise) by temporary faculty:** NIL

13. **Student -Teacher Ratio (Programme wise):**

Course	Specialization	Ratio
U.G - B.TECH	Mechanical Engineering	15:1
P.G - M.TECH	Thermal Engineering	12:1

14. **Number of academic support staff (technical) and administrative staff; sanctioned and filled.**

Post	Sanctioned	Filled
Administrative Staff	1	1
Academic Supporting Staff	3	3

15. **Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.**

S.No	Highest Qualification	No. of Faculty
1	Ph.D	2
2	M.Tech (Ph.D)	10
3	M.Tech	24

16. **Number of faculty with ongoing projects from National, International funding agencies and grants received:** Nil

** Applied for grant through the Funding agency SERB with the Project Title “Fabrication, Mechanical Characterization and Tribological (erosive wear) Properties of Carbon fiber & Particulates (Red Mud, fly ash & combination of Red mud & Fly ash) filled Polyester Based Hybrid Composites.” and awaiting for the result.

NAAC - SELF STUDY REPORT

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received: NIL

18. Research Centre /facility recognized by the University: NIL

19. Publications: 66

*a) Publication per faculty:

S.No	Faculty	DESIGNATION	National Journal/Conference	Inter-National Journal/Conference	Avg. Impact Factor
1	Dr. C.Naga Bhaskar	Professor	8	18	3.52
2	Mr. R.Vijay Krishna	Associate Professor	---	05	3.333
3	Mrs. K.Vidya	Associate Professor	---	02	2.623
4	Mr. J.Sampath Suresh	Associate Professor	---	04	3.723
5	Mr. V.Mohan Manoj	Assistant Professor	---	01	2.8
6	Mr.G.S.R.N Malleswara Rao	Associate Professor	---	02	1.103
7	Mr. Ch.Naveen Kumar	Assistant Professor	---	05	3.02
8	Ms. A.Madhuri	Assistant Professor	---	05	3.04
9	Mr. Sk.Abdul Azeez	Assistant Professor	---	04	2.982
10	Mr. Md.Nazeer	Assistant Professor	---	02	2.042

NAAC - SELF STUDY REPORT

11	Mrs. P.Bharathi	Assistant Professor	---	01	5.126
12	Mr.K.Venkateswar a Reddy	Assistant Professor	---	02	2.072
13	Mr. Y.Venkatesh	Assistant Professor	---	01	0.543
14	Mr. N.Syambabu	Assistant Professor	---	05	6.5
15	Mr.K.Naga Raju	Assistant Professor	---	01	2.72

***Monographs: NIL**

***Chapter in Books: NIL**

***Books Edited: NIL**

***Lab Manuals: 12**

***Books with ISBN/ISSN numbers with details of publishers: NIL**

20. Areas of consultancy and income generated: NIL

21. Faculty as members in

a) National committees: NIL

**** Faculty is the life member in the following professional body.**

S.No.	Faculty Name	Professional Body	Membership No.	Member Type
1	Dr. C.Naga Bhaskar	Fellow of Institution of Engineers, India (FIE)	F-112678-0	Life Time
2	Dr. C.Naga Bhaskar	Life Member as Chattered Engineer (C.E)	F-112678-0	Life Time
3	Dr.C.Naga Bhaskar	Life Member of Indian Society for Technical Education (MISTE)	LM16804	Life Time
4	Dr. C.Naga Bhaskar	Life Member of Condition Monitoring Society of India (MCMSI)	LM0600043	Life Time
5	Dr. C.Naga Bhaskar	Fellow of ISME (Indian Society For Mechanical Engineers)	FISME 20161020002	Life Time
6	Mr.V.M.Manoj Gupta	ISTE (Indian Society For Technical Education)	LM100995	Life Time

NAAC - SELF STUDY REPORT

b) International Committees: NIL

** Faculty is the life member in the following professional body.

S.No	Faculty Name	Professional Body	Membership No.	Member Type
1	Dr. C.Naga Bhaskar	IAENG (International Association Of Engineers)	178484	Life Time
2	Mr. R.Vijay Krishna	IAENG (International Association Of Engineers)	177411	Life Time
3	Mr. R.Vijay Krishna	ISRD (International Society for Research and Development)	M4150902760	Life Time
4	Mr.O.N.V.P.Bhagavan	IAENG (International Association Of Engineers)	177459	Life Time
5	Mr. Ch.Naveen Kumar	IAENG (International Association Of Engineers)	176410	Life Time
6	Ms. A.Madhuri	IAENG (International Association Of Engineers)	176409	Life Time
7	Mr.Y.Venkatesh	IAENG (International Association Of Engineers)	177748	Life Time
8	Mr.Sk.Abdul Azeez	IAENG (International Association Of Engineers)	177760	Life Time
9	Mr.N.Syam Babu	IAENG (International Association Of Engineers)	177751	Life Time
10	Mr.K.Mani Kumar	IAENG (International Association Of Engineers)	176824	Life Time

NAAC - SELF STUDY REPORT

		Engineers)		
11	Mr.V.Sri Rama Murthy	IAENG (International Association Of Engineers)	177747	Life Time
12	Mr.J.S.Suresh	IAENG (International Association Of Engineers)	177746	Life Time
13	Mr.V.M.Manoj Gupta	IAENG (International Association Of Engineers)	148172	Life Time
14	Mr.N.Rajasekhar	IAENG (International Association Of Engineers)	177750	Life Time
15	Mr.S.Venkateswara Rao	IAENG (International Association Of Engineers)	177753	Life Time
16	Mr. Ch.Naveen Kumar	ISRD (International Society for Research and Development)	M4150902764	Life Time
17	Ms. A.Madhuri	ISRD (International Society for Research and Development)	M4150902763	Life Time
18	Mr.O.N.V.P.Bhagavan	ISRD (International Society for Research and Development)	M4150902762	Life Time
19	Mrs.K.Anusha Raj	ISRD (International Society for Research and Development)	M4150902820	Life Time
20	Mrs.K.Anusha Raj	IAENG (International Association Of Engineers)	182048	Life Time
21	Mr.K.Mani Kumar	IAENG (International	176824	Life Time

NAAC - SELF STUDY REPORT

		Association Of Engineers)		
22	Mr.N.Syam Babu	ISRD (International Society for Research and Development)	M4150902759	Life Time
23	Mrs.P.Bharathi	IAENG (International Association Of Engineers)	177465	Life Time
24	Mr.Sk.Abdul Azeez	ISRD (International Society for Research and Development)	M4150902907	Life Time

c) **Editorial Boards:** Nil

22. Student projects

a) **Percentage of students who have done in-house projects including inter departmental/Programme:**

Academic Batch	Name of the Course/ Program	% of Students – In-House Projects
2011-2015	UG (B.Tech)	78.9
2012-2016		54.7
2013-2017		In Progress
2014-2018		In Progress
2015-2019		In Progress
2016-2020		In Progress
2014-2016	P.G	100

NAAC - SELF STUDY REPORT

2015-2017	(M.Tech)	In Progress
2016-2018		In Progress

b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies:

Academic Batch	Name of the Course/ Program	% of Students – Outside the Institution Projects
2011-2015	UG (B.Tech)	21.1
2012-2016		45.3
2013-2017		In Progress
2014-2018		In Progress
2015-2019		In Progress
2016-2020		In Progress
2014-2016	P.G (M.Tech)	---
2015-2017		In Progress
2016-2018		In Progress

NAAC - SELF STUDY REPORT

23. Awards / Recognitions received by faculty and students:

➤ Awards / Recognitions received by Faculty:

S.No.	Name of Faculty	Award / Recognition	Awarded By	Year
1	Dr.C.NagaBhaskar	Best Teacher	JNTUK	2010

➤ Awards / Recognitions received by Students:

S.No	Name of Student	Award / Recognition	Position/Prize	Awarded By	A.Y
1	B.Lava Kumar	Fastest Auto Cad	Second	Bapatla Engg. College	2015 - 2016
2	M.Pradeep	Black & White	Third	V.R.S.E	2015 - 2016
3	K.V.S.K. N Sainath	Paper Presentation	First	NRI IT	2015 - 2016
4	B.Tandava V M I Sai	Paper Presentation	Second	NRI IT	2015 - 2016
5	V.Pradeep	Paper Presentation	Second	NRI IT	2015 - 2016
6	M.Lakshmi Harish	Paper Presentation	First	NRI IT	2015 - 2016
7	M.Lakshmi Harish	Model Expo	Second	NRI IT	2015 - 2016
8	G.Naveen	Model Expo	Second	NRI IT	2015 - 2016
9	V.Anand	Long Jump	Third	NRI IT	2015 - 2016
10	V.Pradeep	Srujana'16	First	A.B.V.P	2015 - 2016
11	M.Sai	Lakshya-2K16	First	L.B.R.C.E	2015

NAAC - SELF STUDY REPORT

	Ram	IT			- 2016
12	M.Sai Ram	SKILL FEST- 2016 BUSINESS PLAN	Second	GURU Raghavendra skill Development center	2015 - 2016
13	M.Sai Ram	Srujana'17 - PPT	First	PACE ITS	2016 - 2017
14	M.Sai Ram	SRUJANANKUR A INNOVATIVE MIND	Frist	VIGNAN'S	2016 - 2017
15	M.Sai Ram	SRUJANANKUR A IDEA HUNT	Frist	VIGNAN'S	2016 - 2017
16	M.Sai Ram	Srujana'17 IOT SUITCASE	Frist	PACE ITS	2016 - 2017
17	M.Sai Ram	JIGNASA-17 PPT	SECOND	PSCMR	2016 - 2017
18	M.Sai Ram	YOUR FEST PAPER PRESENTATION	Frist	USHARAM A	2016 - 2017
19	M.Sai Ram	YUVA PPT	Frist	KITS	2016 - 2017
20	M.Sai Ram	SUNRISE 17 PPT	THRID	NRIIT	2016 - 2017
21	M.Sai Ram	AAKARSH PAPER PRESENTATION	First	PPDCET	2016 - 2017
22	M.Sai Ram	SRUJANA'16 WORKING MODEL	Second	ABVP	2016 - 2017
23	M.Sai Ram	ASIST AAHWAN-17 PAPER PRESENTATION	FRIST	NRIIT	2016 - 2017
24	M.Sai Ram	ANUSODHANA START UP IDEA	FRIST	ANUCET	2016 -

NAAC - SELF STUDY REPORT

					2017
25	M.Sai Ram	YAIBHAY PPT	FIRST	St. Ann's CET	2016 - 2017
26	M.Sai Ram	SAMYAK PAPER PRESENTATION	SECOND	KLU	2016 - 2017
27	M.Sai Ram	SAMYAK PROMOTE YOUR PRODUCT	SECOND	KLU	2016 - 2017
28	M.Sai Ram	TECHNOTSAR PAPER PRESENTATION	SECOND	MVR	2016 - 2017
29	M.Sai Ram	IEEE 3D-PRINTING & RAPID PROTOTYPING	FIRST	LBRCE	2016 - 2017
30	M.Sai Ram	SAMYAK INNOVATION	SECOND	KLU	2016 - 2017
31	Lakkoju Nagadurga Rao	POWER LIFTING	THIRD	JNTUK	2016 - 2017

24. List of eminent academicians and scientists / visitors to the department:

S.No	Date	Name of Academician/Scientist/Visitor	Designation	Organization	Purpose of Visit
1	25/01/2017	Dr. V.Ramachandra Raju	Vice - Chancellor Administrative Block	IIIT Nuzvid	To interact with students on Career opportunities with Social Responsibility and Ethical Values.

NAAC - SELF STUDY REPORT

2	28/12/2016	Mr Vinod K. Dasari	Managing Director	Ashok Leyland Limited.	To interact with students on acquiring Higher degree and career opportunities for Mechanical Engineering students in Industries.
3	04/01/2016	Prof. S. S. Rao	Professor	University of Miami, Coral Gables, USA	To interact with students on Engineering Optimization Theory and Practice
4	06/09/2015	Dr. P. Udaya Bhaskar	Professor	JNTU College of Engineering Kakinada	To interact with students on acquiring Higher degree and career opportunities
5	23/08/2014	Mr. Suhas Rane	Director	Siemens India	To interact with students on Career opportunities
6	07/03/2013	Dr. K. Sivaji Babu	Professor	PVPSIT	National Technical Symposium – 2K13

25. Seminars/ Conferences/Workshops organized & the source of funding

NAAC - SELF STUDY REPORT

a) National:

S.No.	Date	Seminars / Conferences/Workshops	Resource Person	Source of Funding
1	23-01-2017 To 26-01-2017	Three day Workshop on CRE-O/CATIA/ANSYS	S.Prasanna Kumar	NRIIT
2	19-12-2016 & 20-12-2016	Two Day National Workshop on NDT	G.VIJAY KUMAR	
3	09-01-2016	Career Opportunities for Mechanical Engineers in Germany	Mr.Jamindar Buddiga	
4	04-01-2016	One Day National Workshop on Engineering Optimization Theory and Practice	Prof. S. S. Rao	
5	28-12-2015	Career Prospectus through GATE	Mrs.Ch.Navata	

b) International: NIL

24. Student profile Programme/course wise:

Academic Batch	Name of the Course/Programme (refer question no. 4)	Applications received	Selected	Enrolled		Course Completed Students	Pass percentage
				*M	*F		
2011 – 2015	UG (B.Tech)	71	71	69	02	53	74.64
2012 – 2016		125	125	115	10	90	72
2013 – 2017		129	129	128	01	In-Progress	In-Progress

NAAC - SELF STUDY REPORT

2014 – 2018		147	147	147	00	In-Progress	In-Progress
2015 – 2019		184	184	184	00	In-Progress	In-Progress
2014 – 2016	PG (M.Tech)	05	05	03	02	4	80
2015 – 2017		04	04	04	00	In-Progress	In-Progress
2016 – 2018		04	04	03	01	In-Progress	In-Progress

*M = Male *F = Female

27. Diversity of Students

Academic Batch	Name of the Course/ Program	% of students from the same state	% of students from other States	% of students from abroad
2011 – 2015	UG (B.Tech)	100 (71)	-	-
2012 – 2016		100 (126)	-	-
2013 – 2017		100 (129)	-	-
2014 – 2018		99.9 (145)	0.01 (2)	-
2015 – 2019		100 (184)	-	-
2014 – 2016	PG (M.Tech)	100 (5)	-	-
2015 – 2017		100 (4)	-	-
2016 – 2018		100 (4)	-	-

NAAC - SELF STUDY REPORT

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Academic Batch	GATE/PGECET	GRE	RRB
2011 – 2015	03	01	---
2012 – 2016	01	01	01

29. Student progression

Student progression	Against % enrolled		
	2011-2015	2012-2016	2013-2017
UG to PG	(6) 9.8%	(2) 1.58%	----
PG to M.Phil	----	----	----
PG to Ph.D.	----	----	----
Ph.D. to Post-Doctoral	----	----	----
Employed	(6) 8.45%	(38) 30.15%	(25)
■ Campus Selection	(6) 8.45%	(6) 4.76%	----
■ Other than Campus			
Entrepreneurship/Self-employment	----	(1) 0.79%	----

30. Details of Infrastructural facilities

a) Library Plinth Area: 33.53 Sq.m

Department	Mechanical Engineering
No of Titles	75
No of volumes	180

b) Internet facilities for Staff & Students:

- 3 systems with LAN Connections with internet speed of 20 Mbps
- 1 Laptop
- Wi-Fi Enabled Campus Connection

b) Class rooms with ICT facility: **YES**

Rooms	Number of Rooms	Facilities Available
No of Class Rooms	08	LCD Projector, Benches, Fans, Chairs, Wi-Fi Connection
No of Tutorial Rooms	02	LCD Projector, Benches, Fans, Chairs, Wi-Fi Connection
Seminar Hall	01	LCD Projector, Benches, Fans, Chairs, Wi-Fi Connection, A.C

NAAC - SELF STUDY REPORT

d) Laboratories:

S.No.	Name of the laboratory	Area (Sq. m)	List of Major Equipment(s)
1	Workshop Technology	91.97	Hand Tools
			Bench Vices
			Carpentry Vices
			Anvil
			Chisels
			Dot Punches
			Scribers
			Snips
			Steel Rules
			Marking Gauges
			Hacksaw
			Cross cut Saw
			Calipers
			Jack Plane
			Wood Rasp File
Try Squares			
Cutting Pliers			
2	Metallurgy	122.63	Microscopes, ,
			Disc Polishing Machines
			Jominey Quench Apparatus
			Muffle Furnace

NAAC - SELF STUDY REPORT

3	Mechanics Of Solids	153.29	Universal Testing Machine
			Compression Test Rig
			Torsion Testing Machine
			Brinell's Hardness Tester
			Impact Testing Machine
4	CAD & Simulation	101.17	Computers
			LCD Projector
5	Thermal Engineering	168.61	Two Stroke Petrol Engine Cut section model
			Four Stroke Diesel Engine Cut section model
			Two Stroke Petrol Engine with Electrical Loading
			Four Stroke Diesel Engine with Mechanical Loading
			Four Stroke 3 cylinder Petrol Engine with Hydraulic Loading
			Four Stroke 1 cylinder Petrol Engine (VCR)
			Multi Stage Reciprocating Air Compressor
			Boiler Models
			Refrigeration Tutor
Air Conditioner (Duct Type)			
6	Fluid Mechanics & Hydraulic Machinery	134.89	Venturi meter & Orifice meter
			Francis Turbine
			Pelton Turbine

NAAC - SELF STUDY REPORT

			Single centrifugal Pump
			Multi stage centrifugal Pump
			Pipe Friction Apparatus
			Impact of Jet on Vanes
			Mouth Piece Apparatus
7	Production Technology	67.44	Arc welding Machine
			Injection Moulding Machine
			Blow Moulding Machine
			Hydraulic Press
			Sand Moulding Tools
			Spot Welding Machine
8	Instrumentation & Metrology	101.17	Depth Gauge
			Vernier Calipers
			Sine bars
			Slip Gauges
			Tool Makers Microscope
			Micrometers
			Surface Plate
			Strain Gauge
			Pressure Gauge
			LVDT
			RTD
			Bore Gauge
9	Machine Tools	202.34	Shaper Machine

NAAC - SELF STUDY REPORT

			Lathe Machines
			All Geared Lathe Machines
			Radial Drilling Machine
			Surface Grinding Machine
			Slotting Machine
			Power Hacksaw
			Bench Grinder
10	Heat Transfer	134.89	Critical Heat Flux Apparatus
			Natural Convection Apparatus
			Forced Convection Apparatus
			Shell & Tube Heat Exchanger
			Composite Slab Apparatus
			Heat Pipe Apparatus
			Stefan Boltzman Apparatus
			Emmissivity Measurement Apparatus
			Thermal Conductivity Apparatus
			Drop wise & Film wise Apparatus
			Parallel & Counter Flow Apparatus

31. Number of students receiving financial assistance from college, university, Government or other agencies

Academic	Course	S C	S T	BC	EB C	BC -E	No. of Student	Financial assistance

NAAC - SELF STUDY REPORT

Year	–						s	from
	UG/P							
	G							
2012 – 2013	UG & PG	26	0	57	22	09	114	Government (Fee Re- imbursement)
2013 – 2014		34	1	101	55	17	208	
2014 – 2015		44	1	132	111	22	310	
2015 – 2016		43	1	54	42	34	374	

32. Details on student enrichment Programmes (special lectures / workshops /Seminar) with external experts:

S. No.	Date	Lecture on	Name of the resource person	A.Y
1	23/09/2016	Study of Mechanical Vibrations in various Structural and Mechanical Applications	Dr.K.Meerasaheb, Professor, ME Dept., JNTUK	2016-2017
2	16/01/2016	Importance of AutoCAD to a Mechanical Engineer	Mr. S.Prasanna Kumar, Managing Director, CAD DESK	2015-2016
3	18/07/2014	Hands on Training of AutoCAD	Mr.B.Prasad, Managing Director, CADD EXPERTS	2013-2014
4	07/11/2013	Hands on Training of AutoCAD	Mr.B.Prasad, Managing Director,	2012-2013

NAAC - SELF STUDY REPORT

			CADD EXPERTS	
--	--	--	-----------------	--

33. Teaching methods adopted to improve student learning:

- Power point presentations & Animated Video lectures are arranged to the students by the concerned faculty.
- Make – up & Remedial classes are conducted to improve the problem solving skills and to improve the academic performance
- Encouraging the students to deliver a seminar on the topics related to subject in the allotted period (Design/Fabrication Project).
- Arranging workshops/guest lecturers to students by eminent personalities from academic institutions and Industry to enhance the knowledge of student
- Arranging Industrial Visits per semester like N.T.T.P.S, KRISHNA Industries, etc.,
- Providing access to JNTUK-COEERD lectures in the college premises
- Providing e-content to the students through Blog Spot (<http://nrimechteam.blogspot.in>)

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

- **NSS activities**
- 5. Encouraging the students to involve as volunteers for conducting blood donation camps. Blood Donation Camp Conducted on 22/9/2016
- 6. Planted Saplings actively in “Vanam-Manam” program under the scheme of A.P. State Govt. on 15/9/2016
- 7. Donated & Established Drinking Water pipe line for one of the Govt. School in Kansanapalli

35. SWOC analysis of the department and Future plans:

Strengths:

- Department has young & highly motivated faculties with good academic experience.
- Supportive working environment among department members

NAAC - SELF STUDY REPORT

- Department is working on outcome base teaching-learning process.
- Well-equipped laboratories.
- Most of the faculty members presented & published papers at several reputed National, International conferences and journals.
- Providing opportunities to get internships for students.
- Certified by ISO 9001:2015 for providing quality technical education.
- Enhancing student performances with Peer teaching and counseling.
- The Department has formed a student association TEAM under which cultural & technical events is organized.
- Soft skills and related training by T&P Cell to raise the employability of the students.

Weaknesses:

- Inadequate collaboration with other universities, industries, foreign institutions.
- Need to improve student publications.

Opportunities:

- Opportunity to perform various experiments in industries for project works in final year.
- Good management with generous attitude in the form of lucrative special care and incentives to attract highly qualified and efficient faculty.
- Availability of National/International Conferences, Seminars, Workshops, etc.,

Challenges:

- To enhance more opportunities for the students placements.
- To enhance Industry oriented training.

Future Plans:

- To enhance number of Industry - Institute Interaction (MOU's) for practical exposure of manufacturing techniques, equipment and employability.
- To enhance number of memberships with professional bodies.
- To get accredited to NAAC & NBA.
- To establish Centre of Excellence in Designing.

NAAC - SELF STUDY REPORT

Evaluative Report of MCA Department

1.Name of the department: Master of Computer Applications

2.Year of Establishment :2009

3.Names of Programmes /Courses offered:

Sl.no	Name of the Programme	UG/PG	Year of Establishment
1	M.C.A.	PG	2009

4.Names of Interdisciplinary courses and the departments/units involved

Sl.No	Course	Department
1	Discrete Mathematical structures and Graph Theory	Science & Humanities Department
2	Probability & statistical applications	
3	Accountancy &Financial Management	
4	English Language and Communication Skills lab	
5	Organizational Structures and Human Resource Management	
6	Optimization techniques	
7	Digital Logic and Computer Organization	Electronics and Communication Engineering Department
8	Digital Logic and computer	

NAAC - SELF STUDY REPORT

	organization Lab	
--	------------------	--

5. Annual/ semester/choice based credit system (programme wise):

Sl.No	Course	semester/choice based credit system
1	M.C.A	Semester and choice based system

6. Participation of the department in the courses offered by other departments

Sl. No	Course	Department	Credits	Periods t/lab.
1	DataBase Management System	Computer Science and Engineering Department	3	5
2	Design and Analysis of Algorithms	Computer Science and Engineering Department	3	5
3	Management Science	Mechanical Engineering Department	3	5
4	IT Workshop	B.Pharmacy	3	3
5	Unix Programming	Computer Science and Engineering Department	3	5
6	Software Testing Methodologies	Computer Science and Engineering Department	3	5
7	Unix Programming lab	Computer Science and Engineering Department	2	3
8	Software Testing Methodologies Lab	Computer Science and Engineering Department	2	3

7. Courses in collaboration with other universities, industries, foreign institutions, etc.-NIL-

- **Certification Courses in collaboration with other universities, industries, foreign institutions etc**

S.No	Name of the Course	Industry/Company
1	Fundamentals of the java programming „Language ,java SE 6, 1.1 English Student kit	M/s. Oracle University

NAAC - SELF STUDY REPORT

2	Java Programming Language, java SE 6, 1.1	
3	Oracle Database 11g Program with PL/SQL 2.0	
4	Web Component developement with Servlets and JSPs,Java	
5	Java SE 7 Programming	
6	Microsoft Technology and Associate Training(MTA)	Microsoft Ed-Vantage Programme
7	Course on Android, Java	APSSDC

8.Details of courses/ programmes discontinued (if any) with reasons :
Nil

9.Number of Teaching posts

	Sanctioned (As Per AICTE)	Filled
Professors	1	-
Associate	2	1
Assistant	6	14

10.Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Sl.No	Name	Qualification	Designation	Specialization	No.of Years of Experience
1	Dr.K.Krishna Rao	Ph.D	Assoc.professor	Mathematics	23
2	K.ChandraMouli	M.Tech	Asst.Professor	Computer Science &Engg	6

NAAC - SELF STUDY REPORT

3	K.UdayaSree	M.Tech	Asst.Profess or	Computer Science &Engg	15
4	L.Kavitha	M.Tech	Asst.Profess or	Computer Science &Engg	5
5	G.Sireesha	M.Tech	Asst.Profess or	Computer Science &Engg	1
6	S.Harsha	M.C.A	Asst.Profess or	Computer Science &Engg	10
7	V.Aparna	M.C.A	Asst.Profess or	Computer Science &Engg	6
8	SK.Mastanva li	M.C.A	Asst.Profess or	Computer Science &Engg	3
9	P.Prabhu Kiran	M.C.A	Asst.Profess or	Computer Science &Engg	9
10	M.Kranti Kumar	M.C.A	Asst.Profess or	Computer Science &Engg	1
11	U.Naresh	M.C.A	Asst.Profess or	Computer Science &Engg	4
12	T.Madhu	M.C.A	Asst.Profess or	Computer Science &Engg	3
13	CH.Ganesh kumar	M.C.A	Asst.Profess or	Computer Science &Engg	1
14	A.Sri	M.C.A	Asst.Profess	Computer	2

NAAC - SELF STUDY REPORT

	Lakshmi		or	Science & Engg	
15	R.Sai RAM	M.C.A	Asst.Profess or	Computer Science & Engg	1

11. List of senior visiting faculty: Nil

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: Nil

13. Student -Teacher Ratio (programme wise)

Programme: PG [M.C.A] : 1:12

14. Number of academic support staff (technical) and administrative staff; sanctioned and Filled

Sl.No	Support Staff	Sanctioned	Filled
1	Technical staff	01	01
2	Administrative Staff	01	01

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

Sl.No	No. of Faculty With Ph.D	No. of Faculty With PG (M.Tech)
1	1	4

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Nil

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received: -NIL-

- conference grant from DST as per the following Details

S.No	Name Of Faculty	Project Description	Funding Agency	Status of grant received
1	Dr.K.V.Sambasiva Rao	To conduct a two day national conference on next generation	DST	Amount Sanctioned Rs.1,00,000

NAAC - SELF STUDY REPORT

		computing		
--	--	-----------	--	--

18. Research Centre /facility recognized by the University: No

Though department is not officially recognized as a research center, some of our faculty are recognized as supervisors by different universities, so college is providing facilities for the supervisors and their research scholars to pursue their research. Here is the list of the research scholars and their supervisors.

S.No	Name Of Supervisor	Name Of the Scholar	University	Degree	Area
1	Dr.K.V.Sambasiva Rao	Ms.K.S.Vijaya Lakshmi	JNTUK,Kakinada.	Ph.D	CSE
2	Dr.K.V.Sambasiva Rao	Mr.B.Jayanaga	Acharaya Nagarajuna University.	Ph.D	CSE
3	Dr.K.V.Sambasiva Rao	Ms.M.Rani.	Dravidin University.	Ph.D	CSE
4	Dr.K.V.Sambasiva Rao	Mr.S.Ravikiran	JNTUK,Kakinada.	Ph.D	CSE

19. Publications:

a) Publication per faculty

Sl.No	Faculty Name	National Journal	International Journal	National Conference	International Conference	Impact factor
1	Dr.K.Krishna Rao	-	4	-	-	3.7
2	Mr. K. Chandramouli	-	3	1	-	3.6
3	K.Udaya Sri	-	3	-	-	3.8
4	Mrs. L. Kavitha	-	3	1	-	4.0
5	Mrs.G.Sireesha	-	2	-	-	3.7

NAAC - SELF STUDY REPORT

6	S.Harsha	-	-	-	-	-
7	V.Aparna	-	-	-	-	-
8	SK.Mastanvali	-	-	-	-	-
9	P.Prabhu Kiran	-	-	-	-	-
10	M.Kranti Kumar	-	-	-	-	-
11	U.Naresh	-	-	-	-	-
12	T.Madhu	-	-	-	-	-
13	CH.Ganesh kumar	-	-	-	-	-
14	A.Sri Lakshmi	-	-	-	-	-
15	R.Sai Ram	-	-	-	-	-

b) Number of papers published in peer reviewed journals (National /International) by faculty and students: 17

c) Number of publications listed in International Databases: Nil.

d) Monographs: Nil.

e) Chapter in Books: Nil.

f) Book Edited: Nil.

g) Book with ISBN/ISSN numbers with details of publishers:01

h) Citation Index: Nil.

i) SNIP: Nil.

j) SJR: Nil.

k) Average Impact factor: 3.76

l) h- Index: Nil.

l)laboratory manuals:13

20.Areas of consultancy and income generated:

NAAC - SELF STUDY REPORT

Sl.No	Type of Consultancy Provided	Company Name	Income generated	
			2015-16	2016-17
1	Conducting Online Examinations	TCS-ION	35,00,000	32,00,000

- 21.Faculty as members in**
- a) National committees: Nil
 - b) International Committees: Nil
 - c) Editorial Boards: Nil

22.Student projects

- a)Percentage of students who have done in-house projects including inter departmental/programme

YE A R	TOTAL NO OF STUDENT S	INHOUS E	INHOUSE %	OUTHOU S E	OUTHOU S E %
2009-2012	42	42	100%	-	-
2010-2013	53	53	100%	-	-
2011-2014	56	56	100%	-	-
2012-2015	45	45	100%	-	-
2013-2016	17	17	100%	-	-

- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies – Nil.

23. a)Awards / Recognitions received by faculty and students

Faculty:-Nil

Students:

Sl.No	Name of the student	Award/Recognition	Awarded by	Year
1	N.Siavanganeyulu	Participation Certificate	Prasad.V.Potluri Siddartha Institute of	2015

NAAC - SELF STUDY REPORT

			Technology	
2	N.Siavanganeyulu	2 nd PRIZE	Prasad.V.Potluri Siddartha Institute of Technology	2015
3	N.V.SivaAnjaneyulu	Participation Certificate	Andhra Loyala College	2014
4	S.VenkataKonda Reddy&K.Rajsekhar	Jury Appreciation Certificate	Gudlalleru Engineering College	2013
5	P.ManojSai Ram Chand	Secured 2 nd Prize in "Smart Dust"	Gudlalleru Engineering College	2013
6	K.Raja Sekhar	Participation Certificate.in National level Paper Presentation Contest	Gudlalleru Engineering College	2013
7	I.Durga Srinivasarao	2 nd Prize in National level Paper Presentation Contest	Gudlalleru Engineering College	2013
8	V.Himaja	Participation Certificate	IBM "The Great Mind Challenege - 2011"	2011
9	Shaik Bilal Ahmed	Participation Certificate	IBM "The Great Mind Challenege - 2011"	2011

Sports:

Sl.No	Name of the student	Award/Recognition	Event	Year
1	B.Siva	Participation Certificate	air pistol tournament at inter university college competitions held	2014

NAAC - SELF STUDY REPORT

			at Punjab university.	
--	--	--	-----------------------	--

24 . List of eminent academicians and scientists / visitors to the department

Sl.No	Name of the Speaker	Topic	Date
1	Mr.D.Rama Krishna,MD,Efftronics systems,Pvt,Ltd.vijayawada	Next Generation Systems	23/12/2016
2	Capt.Dr.S.Santhosh Baboo,professor,DG Vaishnav college,Chennai	Cluster based segmentation methods for medical image	23/12/2016
3	Dr.B.V.Subba Rao,Professor,PVPSIT,Vijayawada	Prediction of crop intelligence attributes	23/12/2016
4	Mr.K.Dheeraj, Promoter ,Gurukul.	Significance of IOT & Artificial intelligence.	23/12/2016
5	Mrs.Layanaya,APSSDC.	Current Trends in IOT	23/12/2016
6	Mrs.Alekya,APSSDC.	Current Trends in IOT	23/12/2016
7	Mr.Veer Anjaneya Nagaraju,Big data minds	3 days Work shop on Hadoop and Big data analytics	12/9/2016 to 14/9/2016
8	Mr.Madhu Parvathaneni Entrepreneur / IoT Developer ORL Industries	3 days Work shop on IOT.	1/8/2016 to 3/8/2016
9	Mr.M.Ram Mohan,Cronux Technologies,Hyderabad	Seminar on SAP	2/4/16
10	Mr.Ch.Sai Sateesh.	Seminar on Malware Technology	4/3/2016 to 5/3/2016
11	Mr.Nivas,Team Campus Connect,Infosys.	Opportunities in present IT Industry	30/07/2016

NAAC - SELF STUDY REPORT

12	Mr.Venkat Ramana Kuruhuri,Associate Vice President-HR.	Focus Insight Innovation	28/04/2015
13	Mr.Satya Thopalli,HR-Campus Recruitment.	Emerging Technologies	06/10/2014
14	Mr.Vijayan Srinivas,Zen3 Infosolutions(India)Limited.	Latest Trends in IT	22/11/2014
15	Mr.Durga Prasad,Recruitment HR,Mahindra Satyam	How to be best suited into IT	05/05/2011

25.Seminars/ Conferences/Workshops organized the source of funding

a) National b) International

Sl.No	Seminars/Conferences/Workshops	Academic Year	Source of funding
1	National Conference on Next generation Computing.	2016-17	DST
2	Seminar on Graph Theory Applications	2016-17	Management
3	Seminar on Data Fusion In Big Data	2016-17	Management
4	Seminar on Decision Support Systems	2016-17	Management
5	Seminar on Leader Ship Qualities	2016-17	Management
6	Seminar on Ethical Hacking.	2016-17	Management
7	Seminar on SAP.	2016-17	Management
8	Seminar on Malware Technology.	2016-17	Management
9	3 days Workshop on Hadoop and Big Data analytics.	2016-17	Management
10	3 days Workshop on IOT.	2016-17	Management
11	Faculty development program	2015-16	Management
12	Seminar on Industry Requirements	2015-16	Management
13	Seminar on Computer Applications	2015-16	Management
14	National Conference on Data Mining and emerging techniques.	2012-13	Management

NAAC - SELF STUDY REPORT

15	Faculty development program on Teaching Methodologies.	2012-13	Management
16	Faculty development program on JAVA.	2012-13	Management

26. Student profile programme/course wise:

Name of the course/programme:MC A A.Y.	Applications received	Selected	Enrolled		Pass Percentage
			M	F	
2009-2012	43	43	23	20	95.24
2010-2013	58	58	42	16	90.57
2011-2014	57	57	36	21	87.70
2012-2015	47	47	32	15	95.70
2013-2016	17	17	7	10	64.70

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
MCA	100	Nil	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? Nil.

29. Student Progression

Student progression	%			
	2012	2013	2014	2015
UG to PG	-	-	-	-
PG to M.Phil.	Nil	Nil	Nil	Nil
PG to Ph.D.	Nil	Nil	Nil	Nil

NAAC - SELF STUDY REPORT

Employed • Campus selection(CS)	-	20.68(CS)	24.56(CS) 3.5(OCS)	17.02(CS) 2(OCS)
------------------------------------	---	-----------	-----------------------	---------------------

30. Details of Infrastructural facilities

a) **Department Library:** Plinth Area: 52 sq. mts

Department	MCA
No.of Titles	25
No.of Volumes	35
No.of Printed National Journals	12
No.of Printed International Journals	02
E-Journals	Springer,IEEE
Video Lectures	NPTEL(http://www.192.168.4.3/ntpl)

b) **Internet facilities for Staff & Students: Yes**

- Wi-fi enabled in Campus.
- Internet Speed of 10 Mbps 1:1
- BSNL Leased Line, 20 Mbps Broad Band unlimited.
- 15 Mbps Orange net are available.

b) **Class rooms with ICT facility - Yes**

Room Type	No.of Rooms	Facility Available
Lecture Rooms	3	LCD Projectors ,Computer and Internet Facility
Tutorial Rooms	1	

c) **Laboratories**

Lab Description	Area (in Sq.mts)	No.Of.Systems
Database management systems	100 Sq.m	70

31.Number of students receiving financial assistance from college, university, Government or other agencies

NAAC - SELF STUDY REPORT

Category	2015-16	2014-15	2013-14	2012-13
Government –SC Corporation	4	3	3	1
Government –ST Corporation	0	0	0	0
Government –BC Corporation	11	20	31	39
Government –EBC Corporation	10	28	48	66
Government –Minority Corporation	3	7	7	6
others	1	0	0	0
Total	28	58	89	112

32. Details on student enrichment programmes (special lectures / workshops /Seminar) with external experts

Sl.No	Name of the Speaker	Topic	Date
1	Mr.Veer Anjaneya Nagaraju,Big data minds	3 days Work shop on Hadoop and Big data analytics	12/9/2016 to 14/9/2016
2	Mr.Madhu Parvathaneni Entrepreneur / IoT Developer ORL Industries	3 days Work shop on IOT.	1/8/2016 to 3/8/2016
3	Mr.M.Ram Mohan,Cronux Technologies,Hyderabad	Seminar on SAP	2/4/16
4	Mr.Ch.Sai Sateesh.	Seminar on Malware Technology	4/3/2016 to 5/3/2016
5	Mr.Nivas,Team Campus Connect,Infosys.	Opportunities in present IT Industry	30/07/2016
6	Mr.Venkat Ramana Kuruhuri,Associate Vice President-HR.	Focus Insight Innovation	28/04/2015
7	Mr.Satya Thopalli,HR-Campus Recruitment.	Emerging Technologies	06/10/2014
8	Mr.Vijayan Srinivas,Zen3	Latest Trends in IT	22/11/2014

NAAC - SELF STUDY REPORT

	Infosolutions(India)Limited.		
9	Mr.Durga Prasad,Recruitment HR,Mahindra Satyam	How to be best suited into IT	05/05/2011

33 .Teaching methods adopted to improve student learning

- 1.The students are provided with state of the art infrastructure, technology and equipment required to carry on the teaching process like NPTEL Video Lectures in digital Library
2. Workshops on new Technologies are conducted to provide hands on experience in the latest technologies in computer science field.
3. Training for campus placement and aptitude, English labs for effective communication, seminars by in-house faculty and guest speakers etc.
4. Teachers are encouraged to attend Faculty development programmes to upgrade their skills with the latest industry trends .

34.Participation in InstitutionalSocialResponsibility(ISR) and Extension activities

Strengthening practical experience for students in universities is essential to move social responsibility from theoretical base to effective change.

ISR	Year's	Extension Activities	Year's
Relief fund during National Calamities like Uttaranchal flood	2013	Blood Donation Camp	2015,2016
Women awareness programme	2016	Blood Grouping Camp	2015,2016
Awareness about diseases	2016	Educating slum children	2011,2012,2016

NAAC - SELF STUDY REPORT

and Precautions			
Organizing Medical Checkup Camps	2011,2012,2016	Sensitization of school children towards Basic Science	2011,2012,2016
Health and hygiene awareness Programme	2011,2012,2016		

- These activities are conducted by the Institution and the Department on regular basis and all the Students and Faculty of the Department participate in them.

35.SWOC analysis of the department and Future plans

Strengths

- Availability of well qualified and experienced faculty.
- Well equipped laboratories with latest systems and required software.
- Excellent results with good placements
- Quality final year projects
- Well Disciplined students
- Strong professional body (CSI) with consistent track records of success

Weaknesses

Most students are from rural background

- Journal Publications should be improved
- Need to be improve entrepreneurship intelligence

Opportunities

- Academic Autonomy and Functional Autonomy so as to cater the need of industries by continuously updating the curriculum and facilities with the changing demands of market: Deemed University, centre of excellence.

NAAC - SELF STUDY REPORT

- Allowing students to participate AP State's Skill Development Program to enhance technical skills to develop mobile apps
- Entrepreneurship Development Centre to cater the need of entrepreneurs
- Projects with Industry Govt. Organizations leading to R & D centre with the Institute.
- To explore new horizons in research work/studies

Challenges :

- Less employment opportunities
- Lack of Academic Autonomy: Dependence upon traditional curriculum.

NAAC - SELF STUDY REPORT

Evaluative Report of Science & Humanities Department

1. Name of the Department : **Science & Humanities**
2. Year of Establishment : **2008**
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) :

S.NO.	COURSE	SPECIALIZATION	YEAR OF ESTABLISHMENT
1	UG - B. Tech	ECE	2008
2	UG - B. Tech	CSE	2008
3	UG - B. Tech	EEE	2008
4	UG - B. Tech	IT	2008
5	UG - B. Tech	CIVIL	2009
6	UG - B. Tech	MECH	2011

4. Names of Interdisciplinary courses and the departments/units involved:

S.NO.	COURSE/SUBJECT	DEPARTMENT
1	Computer Programming	CSE
2	IT Workshop	IT
3	Engg. Mechanics	MECH
4	Engg. Workshop	MECH
5	Network Analysis	EEE
6	Electrical Circuit Analysis-1	EEE

5. Annual/ semester/choice based credit system (programme wise)

NAAC - SELF STUDY REPORT

- **UG: B.Tech** – ECE, CSE, IT, EEE, CIVIL, MECH – Semester Wise Credit System

6. Participation of the department in the courses offered by other departments

S.NO.	COURSE/SUBJECT	DEPARTMENTS OFFERED
1	Probability and Statistics	CIVIL,CSE, IT, MCA
2	Mathematical Foundation for Computer Science/ Discrete Mathematics	CSE, IT, MCA
3	Operations Research	Mech, MCA
4	Complex variables & Statistical Methods	EEE
5	Environmental Sciences	ECE
6	Managerial Economics & Financial Accountancy/ Accountancy	CIVIL, EEE, MECH, ECE, CSE, IT, MCA
7	Managerial Sciences	CIVIL, EEE, MECH, ECE, CSE, IT

7. Courses in collaboration with other universities, industries, foreign institutions, etc. : NIL

8. Details of courses/programmes discontinued (if any) with reasons : NIL

9. Number of Teaching posts

POST	SANCTIONED	FILLED
Professors	3	3
Associate Professors	4	4
Asst. Professors	45	45

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

S.No.	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
1	Dr.MVN SARMA	Ph.D.	Professor	Economics	35	8
2	Dr.D.KAILASA RAO	Ph.D.	Professor	Economics	38	---
3	Dr. C.V.N. RAO	Ph.D.	Professor	Chemistry	42	3
4	Dr.K.V.B.REDDY	Ph.D	Assoc. Prof.	Physics	20	----
5	Dr.L.VIJAYALAKSHMI	Ph.D	Assoc. Prof.	Physics	11	----
6	M.BABU PRASAD	M.Sc, M.Phil	Assoc. Prof.	Mathematics	26	----
7	Dr.SK.Salma Begum	Ph.D	Assoc. Prof.	Physics	8	----
8	D.SRINIVASULU	M.Sc,M.Phil	Asst.Prof	Mathematics	13	-----
9	K.V.PAVAN KUMAR	M.Sc,MBA	Asst.Prof	Mathematics	12	-----
10	CH.S.SUBRAHMANYAM	M.Sc,MBA	Asst.Prof	Mathematics	12	-----
11	D.VIJAYAKUMAR	M.Sc,M.Tech	Asst.Prof	Mathematics	11	-----
12	P.RAJASEKHAR	M.Sc,M.Phil	Asst.Prof	Mathematics	9	-----
13	A.SOMBABU	M.Sc,M.Phil	Asst.Prof	Mathematics	13	-----
14	P.VIJAYAKUMAR	M.Sc,M.Phil	Asst.Prof	Mathematics	10	-----
15	CH.CHANDRAKALA	M.Sc,M.Phil	Asst.Prof	Physics	14	-----
16	G.KRISHNAPRIYA	M.Sc,M.Phil	Asst.Prof	Physics	15	-----
17	Y.SURYANARAYANA	M.Sc	Asst.Prof	Physics	8	-----
18	M.S.SWARNAPUSHPA	M.Sc	Asst.Prof	Chemistry	12	-----
19	G.PURNACHANDRARAO	M.Sc	Asst.Prof	Chemistry	10	-----
20	Y.MADHAVI	M.Sc,M.Phil	Asst.Prof	English	14	-----
21	R.SRIDEVI	MA	Asst.Prof	English	9	-----
22	A.NEERAJAPADMA	MA	Asst Prof	English	7	----
23	D.RADHIKA	MA,M.Phil	Asst.Prof	English	9	-----
24	T.SREELATHA	M.Sc,M.Phil	Asst.Prof	English	22	-----
25	G.SRIDEVI	M.Sc,M.Phil	Asst.Prof	English	21	-----
26	I.DATTA SRAVANI	MA	Asst.Prof	English	5	-----
27	M ANURADHA	MA	Asst.Prof	English	18	-----
27	T.VIJAYA SRI	MA	Asst.Prof	English	3	-----
28	B.SATISH	MA	Asst.Prof	English	2	-----
29	M.KOTESWARA RAO	M.Com	Asst.Prof	Accounts	39	-----
30	B.V.S.PRASAD	M.Sc,M.Phil	Asst.Prof	English	14	-----

NAAC - SELF STUDY REPORT

31	G.ALEKHYA	M.Sc	Asst.Prof	Environmental Sciences	4	-----
32	D.NAGA RAJESH	MBA	Asst.Prof	Accounts	7	-----
33	G.EDWARD RAJU	MA	Asst.Prof	English	14	-----
34	B.N.Anjaneya Murthy	M.Sc	Asst.Prof	Mathematics	26	-----
35	K.Madhavi	M.Sc, M.Phil	Asst.Prof	Mathematics	12	-----
36	M.Chinni	M.Sc, M.Phil	Asst. Prof	Chemistry	8	-----
37	B.Keerthi Sugandhi	M.Sc	Asst. Prof	Chemistry	4	-----
38	D. Rajasekhar	MBA	Asst. Prof	Accounts	5	-----
39	V.Nagababu	MBA	Asst. Prof	Accounts	8	-----
40	P.Anitha	M.Sc	Asst. Prof	Statistics	1	-----
41	A.Nirmala	M.Sc	Asst. Prof	Mathematics	5	-----
42	Y.Ravibabu	M.Sc	Asst. Prof	Mathematics	1	-----
43	P.Mohana Padma	M.Sc	Asst. Prof	Mathematics	6	-----
44	P.Sudhaswarna Kumari	MA	Asst. Prof	English	8	-----
45	T.Geetha	M.Sc	Asst. Prof	Mathematics	3	-----
46	N.Srinadh	M.Sc	Asst. Prof	Mathematics	6	-----
47	Ch.Umamaheswari	M.Sc	Asst. Prof	Mathematics	6	-----
48	L.Sireesha	M.A	Asst. Prof	English	1	-----
49	D.Rajani	MA	Asst. Prof	English	11	-----
50	V.Shanthi	M.Sc	Asst. Prof	Statistics	4	-----
51	K.Prasanthi	MA	Asst. Prof	English	4	-----
52	G.Sai Roja	M.Sc	Asst. Prof	Physics	1	-----

11. List of senior visiting faculty : **NIL**

12. Percentage of lectures delivered and practical classes handled(programme wise) by temporary faculty; **NIL**

13. Student -Teacher Ratio (programme wise): **15:1**

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

	POST	SANCTIONED	FILLED
Administrative staff		02	02
Academic Support Staff		03	03

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.
Ph.D : **6** M.Phil: **12** , PG (M.Sc/M.Com/MBA/MA): **34**

Highest Qualification	Professor	Associate Professor	Assistant Professor	Total
Ph. D	03	03	----	52
M.Phil	00	01	11	
PG(MA/M.Sc/MBA/M.Com)	00	01	34	

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: **NIL**

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received : **NIL**

18. Research Centre /facility recognized by the University:

19. **PUBLICATIONS:**

No.	Name	Designation	Journals Published		Conferences Attended		Avg.Impact Factor
			National	International	National	International	
1	Dr.MVN SARMA	Professor	39	03	32	03	-----
2	Dr.D.KAILASA RAO	Professor	06	04	06	04	-----
3	Dr.C.V.N.RAO	Professor	16	23	-----	10	0.5073
4	Dr.KVB REDDY	Assoc. Professor	-----	03	-----	-----	0.483
5	Dr.L.VIJAYALAKSHMI	Assoc. Professor	----	07	-----	-----	1.9058
6	Dr. K.KRISHNA RAO	Assoc. Professor	-----	04	-----	-----	2.31
7	M.BABU PRASAD	Assoc Professor	-----	04	04	-----	1.5575
8	D.SRINIVASULU	Asst. Professor	----	07	02	-----	3.003
9	CH.S.SUBRAHMANYAM	Asst. Professor	-----	-----	03	-----	-----
10	D.VIJAYAKUMAR	Asst. Professor	-----	-----	01	-----	-----
11	P.RAJASEKHAR	Asst. Professor	-----	-----	01	-----	-----
12	A.SOMBABU	Asst. Professor	-----	-----	01	-----	-----
13	P.VIJAYAKUMAR	Asst. Professor	-----	-----	01	-----	-----
14	Y.MADHAVI	Asst. Professor	-----	01	02	-----	-----
15	A.NEERAJAPADMA	Asst. Professor	-----	01	02	-----	-----
16	T.SREELATHA	Asst. Professor	-----	01	01	-----	-----
17	R.SRIDEVI	Asst. Professor	-----	01	01	-----	-----
18	BVS PRASAD	Asst. Professor	----	-----	01	-----	-----
19	I.DATTA SRAVANI	Asst. Professor	-----	-----	01	-----	-----
20	T.VIJAYA SRI	Asst. Professor	-----	-----	01	----	-----

- Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- Monographs-**NIL**

S.NO	NAME	DESIGNATION	NO. OF BOOKS EDITED/PUBLISHED
1	Dr.MVN SARMA	PROFESSOR	06
2	Dr.D.KAILASA RA	PROFESSOR	10
3	D.SRINIVASULU	ASST.PROFESSOR	01

20. Areas of consultancy and income generated: NIL

21. Faculty as members in

a) National committees b) International Committees c) Editorial Boards...

Note: The following faculty are member/Life member in different associations.

S.NO.	NAME OF THE FACULTY	MEMBER IN
1	Dr. M V N SARMA	<ul style="list-style-type: none"> ◆ Life member in Indian Economic Association ◆ Life member in AP Economic Association
2	Dr. CV NAGESWARA RAO	<ul style="list-style-type: none"> ◆ Fellow, Indian Chemical Society, India. ◆ Member (MRSC), Royal Society of Chemistry, U.K. ◆ Member, Society of Environmental Toxicology & Chemistry (SETAC), USA ◆ Life Member, Indian Science Congress Association, India. ◆ Life Member, Indian Association of Nuclear Chemists and Allied Scientists, India. ◆ Life Member, Association of British Council Scholars, A.P., India.
3	Dr. D. KAILASA RAO	<ul style="list-style-type: none"> ◆ Life member in Indian Economic Association Life member in AP Economic Association
4	M.BABU PRASAD	AP SOCIETY FOR MATHEMATICAL

		SCIENCES
5	D.SRINIVASULU	AP SOCIETY FOR MATHEMATICAL SCIENCES

22. Student projects

- a) Percentage of students who have done in-house projects including inter departmental/programme: NIL
- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies: NIL

23. Awards / Recognitions received by faculty and students

Sl.No	NAME OF THE FACULTY	AWARD
1	Dr.D.KAILASA RAO	a. Received Best Teacher Award from Government of Anhra Pradesh during 2005. b. Received Best Teacher Award from Kanthi Social Organization, Vijayawada 2006 c. Received Mahatma Gandhi Gold Medal National Award – 2014 for educational and Service Activities. d. Received Dr. Abdul Kalam Gold Medal National Award – 2015 for outstanding Research and Educational Activity. e. Received Vidya Ratna Award from Social Needs Education and Health Association (SNEHA) State Level Award, Tirupati f. . Attended duty without taking any leave including Casual Leave for 23 years and received appreciation from the Management of Sarada College.
2	Dr.L.VIJAYALAKS HMI	* GOLD MEDALIST IN M.Sc, ANU
3	M.BABU PRASAD	* GOLD MEDAL FOR OUTSTANDING PERFORMANCE IN B.Sc, ALC, VIJAYAWADA * Prof. S.N.RAMASWAMY SILVER MEDAL FOR BEST OVERALL PERFORMANCE IN B.Sc *CHITTIKALA KONDAVEETI PRIZE FOR BEST ALL ROUND STUDENT IN B.Sc. * FIRST PRIZE IN I B. Sc .

	* FIRST PRIZE IN II B. Sc .
--	-----------------------------

24. List of eminent academicians and scientists / visitors to the department: NIL

25. Seminars/ Conferences/Workshops organized & the source of funding a) National : NIL

b) International: NIL

26. Student profile programme/course wise:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	

*M = Male *F = Female

Details in Core Departments

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
CIVIL	100%	NIL	NIL
EEE	100%		
MECH	100%		
ECE	100%		
CSE	100%		
IT	100%		

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? **NA**

29. Student progression

Student progression	Against % enrolled
UG to PG	NA
PG to M.Phil.	
PG to Ph.D.	
Ph.D. to Post-Doctoral	
Employed	
<ul style="list-style-type: none"> • Campus selection • Other than campus recruitment 	
Entrepreneurship/Self-employment	

30. Details of Infrastructural facilities a) Library:

Central Library

b) Internet facilities for Staff & Students: YES

c) Class rooms with ICT facility : YES

d) Laboratories:

Name of the Lab	Shared/ Exclusive	Labs Conducting	Floor Area Sq.mt.	Equipment
English	Exclusive	Communication Skills Lab	100	60 Systems, Globerina Software (JNTUK), Fundamental course in soft skills (APHEC)
Physics	Exclusive	Physics		Spectrometer - 7 Travelling Microscope with Micrometer heads. -8 Melde's Apparatus. -6 Stewart & Gee's Apparatus: -6 Battery Eliminator: 2 to 12 volts Dc at 2 amp-15 Compass Box. Cat No:

			159	<p>6040-9 Tuning Forks: Set of 8 Cat No: 5000-12 DC Ammeters: 0-3 Amps. Cat No: 7286-6 Retort Stand: with retort clamp and boss head-6 Sonometer-8 Electro Magnet with Step Down Transformer-4 Slotted weights: Iron 5 × 500 gm. Black painted-8 Torsional pendulum 5 “ dia, brass C.P-4 Vernier Calipers: IME type-10 Spherometer-9 Screw guage: 25 mm size, 1mm pitch-10 Slotted weights: Brass 5 × 50 gr.-6SETS Plug Key 1 Way-14 Commutators four way , round-4 Rheostat: Grooved type 12” long, 30 ohms, 2.8 amps-8 Physical Balance Model No. p-1-1 Analytical Weight box 100 gr, brass weights-8 Meter Scales, wooden- 8 Half- meter scales, Wooden-12 Rough Balance 4 kg capacity-1 Tuning forks. Set of 8 range England-4 Rubber hammers-10 Brass wire-100 gr. D.C.C. wire-500 gr.</p> <p>Slit case for sodium vapour lamp-2 Slit case for mercury vapour lamp-2 E.D.F.Prism 32 × 32 mm -4 Diffraction grating:</p>
--	--	--	-----	--

				<p>15000 L.P.I-7 Sodium vapour lamp 35 watts-2 Mercury vapour lamp 160 watts-2 Wedge plates 3"× 1" size-4 Plano convex lens. 60mm dia, 100 cm f.1-4 Digital stop watch-6 Function generator: digital -4 5 decade resistances box -12 5 decade inductance box-6 5 decade capacitance box-10 Regulated power supply -8 Digital multimeters-14 Aspirator bottle with fittings-9 Beaker 100ml-4 Beaker 250 ml-10 Measuring cylinder 100ml-22 Steel wire-100 gm Copper wire -100gm Stainless steel wire- 100gm Newton's rings lens set-4 sets Magnifier cum torch-4 Spirit level , brass 2" long-6 Pendulum bob 1" dia, brass-6 Weights 50 gm to 2 kg- 1 set</p>
Chemistry	Exclusive	Chemistry		<p>As per JNTUK Syllabus LABORATORY APPARATUS</p> <ol style="list-style-type: none"> Burettes Borosil glass Conical flasks 250 ml. – Borosil

			182	<ol style="list-style-type: none"> 3. Pipettes 10 ml. 4. Glass Rods 5. Beakers 100 ml – Borosil 6. Beakers 250 ml – Borosil 7. Colorimeters - cuvettes 8. Balance electronic 9. Calamel electrodes 10. Platinum electrodes 11. pH electrodes (unbreakable – plastic) 12. Hot Plate 13. Potentiometers 14. Conductometers 15. Volumetric Flask-100ml 16. Volumetric Flask-1litre 17. Volumetric Flask-2litre 18. Measuring cylinders 19. Washbottles 20. Beakers 1000 ml - Borosil 21. Burette stands 22. pH meters 23. Fillers 24. Spatulas 25. Glass funnels
--	--	--	-----	--

31. Number of students receiving financial assistance from college, university, government or other agencies:

ACADEMIC YEAR	NO. OF STUDENTS FROM AP GOVT.
2012-13	381
2013-14	446
2014-15	416
2015-16	434
2016-17	384

Details in Core Departments

32. Details on student enrichment programmes (special lectures / workshops /

seminar) with external experts:**NIL**

33. Teaching methods adopted to improve student learning

- a) Class Room Teaching**
- b) PPTs related to subject**
- c) NPTEL lessons advices**
- d) JNTUK CoEerd education**
- e) GROUP DISCUSSIONS**

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

- A) NSS ACTIVITIES**
- B) SWACHHA BHARATH ACTIVITIES**
- C) CLEAN & GREEN PROGRAMS CALL BY AP GOVERNMENT**
- D) BLOOD DONATION CAMPS**

35. SWOC analysis of the department and Future plans

- The department has dedicated faculty who always strives hard and inspires Students to achieve their goals.
- The institute has been recognized as one of the best among all the colleges in the state of Andhra Pradesh.
- The department is well associated with the faculty of JNTUK in all its academic matters.
- Relatively better standard student intake.
- Qualified and experienced supporting staff and Teaching methodologies as per GATE and IES Syllabus.
- Good infrastructure and Library facilities as per academic standards
- Eco friendly and Pollution free Environment
- The institute is well known for quality education and discipline

- Good computation facility with necessary software

WEAKNESSES

- Inadequate research and consultancy.
- Less industry oriented training programs.
- No summer classes offered at graduate level.
- Because of tight schedule of class work, only a few faculties are permitted to participate in outside seminars/workshops/training programs.

Annexure

1. Name of the Cell: **Training and Placement Cell**

2. Year of Establishment: **2009-2010**

3. Names of Program offered:

S. No	Name of the program	Degree
1	Training for placements	UG - B.Tech (All Branches) and B.Pharmacy PG - MCA, M.Tech (All Branches) and M.Pharmacy

4. Names of Interdisciplinary Concepts and the departments involved:

S. No.	Course	Department
1	C Language Programming	CSE
2	Data Structures	CSE/IT
3	Java Programming	CSE
4	Basic Important fundamental concepts	MECH
5	Basic Important fundamental concepts	ECE
6	Basic Important fundamental concepts	EEE
7	Basic Important fundamental concepts	CIVIL

5. The training is imparted to all the B.Tech II, III year graduates with in the curriculum on Written, Spoken, and Quantitative Aptitude and Reasoning skills. Focus is laid mostly on Interactive mode of teaching where student centric sessions will be conducted, teacher being a facilitator.

Intensive training will be given for all courses of Final year students who

are registered to the Training and Placement Cell. Focus is laid on mock rounds of Group Discussions and Interviews in addition to online and offline practice tests basing on various companies selection criteria.

6. Awards/Recognitions/Affiliations received:

By Institute:

Sl.No	Name of the Award	Given By Company
1	Preferred Placement Partner	By Virtusa Consulting Services Ltd in 2015 (Now called as Virtusa Polaris)
2	Winner of Asia Pacific HRM Congress Award	In 2014 for Academic Excellency in Industry-Institute Interface

Sl.No	Name of the Affiliation	Given By Company
1	Microsoft Academic Partnered College in Krishna District	Microsoft
2	Infosys Campus Connect College	Infosys
3	EMC ² Academic Alliance College in Krishna District	EMC

By Faculty:

Sl. No.	Name of the faculty	Award
1	B.V.S.Prasad	Best Soft skills trainer by Cygmax Business School in the year 2009
2	Dr. N. V. Surendra Babu	“Excellence in Recruitment Drives”-2015 in Vijayawada Region by Wipro in 2015

7. List of eminent academicians and scientists / visitors to the department for student enrichment:

Sl. No	Date	Name of the Speaker	Topic	From Company	Designation
1	03-01-2017	Mr. R.S. Sarma	Career Guidance Program – Interview Etiquette and Employability Skills	Code Tantra	Vice President
2	28-12-2016	Mr. Ashok K. Dasari	Latest Trends in Industry	Ashok Leyland	CEO & MD
3	30-07-2016	Mr. Nivas	Opportunities in present IT Industry	Infosys	Team– Campus Connect
4	04-04-2016	Mr. Venkat Ramana Kuruhuri	Technology Trends	Ramtech	Vice President – HR
5	28-03-2015	Mr. Venkat Ramana Kuruhuri	Focus Innovation Insight	Zen3 Info solutions (India)	Associate Vice President – HR

				Limited	
6	06-10-2014	Mr. Satya Thopalli	Emerging technologies	Tech Mahindra	HR Campus Recruitment
7	22-11-2014	Mr. Vijayan Srinivas	Latest Trends in IT	Zen3 Info solutions (India) Limited	GM
7	11-01-2014	Mr. Bhaskar	HR Interactive Session	Siemens	Sr. HR
8	05-05-2011	Mr. Durga Prasad	How to be best suited into IT	Mahindra Satyam	Recruitment HR

8. Student Registered and Placed Companies list:
(For Last 3 Academic Years)

Student Registrations:

Sl. No	Year	Students Registered	Selected in On Campus	Selected in Off Campus
1	2016-17	369	224 (As on Date)	-----
2	2015-16	367	341	20
3	2014-15	369	199	105

Placement Record in 2016-2017:

Sl No	Company Name	# of Placed students	CTC offered
1	FSS	3	3.0 L

2	Tech Mahindra	25	3.25 L
3	Bacelor	21	2.8 L
4	IKS Health	3	2.46 L
5	TCS	2	3.37 L
6	CV Corp	2	2.4 L
7	Intense Technologies	1	3.0 L
8	Miracle	5	1.8 L
9	Vee Technologies	1	1.5 L
10	Sapient Global Markets	0	5.5 L
11	SLK	9	2.4 L
12	Virtusa Polaris	1	3.3 L
13	HCL Technologies	2	3.0 L
14	Flexiware Solutions	13	1.8 L
15	Tech Tammina	9	1.8L
16	Ramtech Corp	58	1.20 L
17	IBM	4	3.0 L
18	Elico Health Care Services	2	1.0 L
19	Lantech Pharmaceuticals	24	2.0 L
20	Techsosys	8	2.4 L,3.L, 4.L
21	OneGene	20	1.7 L
22	KJ Systems	11	2.0 L
Total No of selections - 224			

Placement Record in 2015-2016:

Sl No	Company Name	# of Placed students	CTC offered
1	Tech Mahindra	29	3.25 L
2	Hexaware Technologies	24	2.5 L
3	Infosys	9	3.2 L
4	Wipro	2	2.2 L
5	Mphasis	4	2.5 L
6	NTT Data	2	3.0 L
7	SLK Software	4	2.4 L
8	TCS	12	3.33 L & 3.5 L
9	Tech Tammina Pvt Ltd	14	2.8 L
10	CMS	72	2.5 L
11	UX Reactor	3	3.3 L
12	Syntel	17	2.9 L
13	Flexiware Solutions	9	1.9 L
14	Good Through	6	2.4 L
15	Gemini Communications	11	1.92 L
16	Netafim India Ltd	9	4.8 L
17	RetailOn	7	4.0 L
18	VEE Technologies	32	1.5 L
19	ACCEL Frontline Global IT Services	3	2.3 L
20	Raster Engineers	4	2.2 L
21	JAIN Irrigations Systems Ltd	13	3.0 L
22	MEDPLUS	14	1.8 L
23	AGS Health Care	14	1.8 L

NAAC - SELF STUDY REPORT

24	Ramtech Corp	10	1.2 L
25	JSKILZ	17	1.5 L to 2.0 L
Total No of selections – 341			

Placement Record in 2014-2015:

Sl No	Company Name	# of Placed students	CTC offered
1	Tech Mahindra	34	3.03 L
2	ATOS	18	3.3 L
3	Value Labs	5	1.8 L
4	Sutherland Global Services	13	2.04 L
5	NTT Data	2	3.0 L
6	Infosys	4	3.2 L
7	Virtusa	3	3.6 L
8	Mphasis	2	2.4 L
9	Digital Juice	1	1.5 L
10	Wipro	8	2.2 L
11	Eider Motors	1	1.0 L
12	Efftronics	1	1.5 L
13	Knoah Solutions	3	1.2 L
14	Miracle Solutions	1	1.8 L
15	CSS Corp	2	3.25 L

16	Cadeploy	5	1.2 L
17	Elico	22	1.5 L
18	TCS	2	3.3 L
19	LG Soft	1	5.3 L
20	TPCIL	1	2.8 L
21	eClerx	10	3.0 L
22	Cadysys	4	1.2 L
23	Zen3	5	1.8 L
24	Tata BSS	3	1.5 L
25	SYNTEL	11	2.9 L
26	INPLENION	2	2.5 L
27	Medico	11	2.2 L
28	AGS Health	24	1.8 L
Total No of selections - 199			

Branch Wise Selections:

Year	Branch	No. of Placements	Total Number of Selections
2016-17	CSE	65	224
	ECE	41	
	EEE	35	
	IT	-	
	CIVIL	19	

	MECH	36	
	MCA	-	
	M.TECH	-	
	B.PHARM	28	
2015-16	CSE	67	341
	ECE	105	
	EEE	39	
	IT	19	
	CIVIL	24	
	MECH	38	
	MCA	4	
	M.TECH	1	
	B.PHARM	44	
2014-15	CSE	54	199
	ECE	47	
	CIVIL	8	
	MECH	6	
	EEE	17	
	IT	19	
	MCA	9	
	M.Tech	0	
	B.Pharmacy	39	

9. Details of Infrastructural facilities

a) T & P Library

No. of Titles	57
No. of Volumes	121

b) Internet facilities for Staff & Students: YES

Wi-Fi enabled in Training and Placement Cell and Internet with a Speed of 20 Mbps

c) Rooms with facilities

Room Type	No. of Rooms	Facility Available
GD rooms	03	Wi Fi and Internet
Interview Rooms	03	

d) Laboratories:

Sl. No.	Name Laboratory	Of	Area in Sq. M	No. of Systems
1	C & DS LAB		100 Sq.M	70
2	ELCS LAB		100 Sq. M	70

10. Teaching methods adopted to improve student learning:

Although students evolve diverse styles to learn, mentors involve them in methods like team learning, quizzes, presentations, discussions, debates and seminars on numerous topics to enhance learning and retaining knowledge apart from skills. Mentors also go for team teaching, online techniques for enhancing knowledge on new concepts. Chats, Models, Symposiums are other methods of better learning. Sending students to technical fests, conferences, workshops and internships develop competence, skills and exposure to intensify their learning spirit. This in turn imparts better knowledge to match with skills required for the industry.

The learner's techniques like collaborative communication in teams for dramas, learning creatively and coming up with innovations in all subjects

by in-house faculty and guest speakers also. Eminent personalities from the industry update the learners with the latest changes. They also clear the doubts and help the students to get better idea about their professional life even before they entered the industry. These H.R.'s and Corporate Trainer's clear their doubts and illusions about the industry.

The students are provided with state of the art infrastructure, technology and equipment while taking online exams for their recruitment registration and exam process.

The teaching methods adopted are well in consonance with the industry needs and are updated on a regular basis..

11. SWOC analysis of the department and Future plans

STRENGTHS

- We are the direct witnesses of our students' success in their professional life.
- Training will be imparted to students not only for placements but on life skills also to make them more competent and proficient where ever they go and whatever the challenge they come across.
- To make the students competent and confident to take public sector examinations also and prove themselves successful even outside the campus.
- Students will have an opportunity to come into contact with corporate culture and corporate world, company executives and HR officials so that they have an understanding of the corporate ambience in advance.
- To enable students grab opportunities overseas besides getting placed in MNCs. (Level V companies)
- Facilitate students to interact directly with corporate executives for better exposure and understanding of the world outside to enable them cater to the needs of the industry from day one.

WEAKNESSES

- Students are to be very seriously trained in all the skills of English language - Listening, Speaking, Reading and Writing.

- Most of the students are still not goal oriented and target based both for their career and academics. Hence their attitude is to be set in a proper way.
- Poor participation in technical fests, seminars and other conferences is to be seriously viewed so that the organizing skills of the students also develop and their leadership skills get honed.
- Entrepreneurship skills of the students also need lot of encouragement.
- Workshops and Seminars are to be arranged by inviting qualified and efficient Psychologists and Soft skills trainers.

OPPORTUNITIES

- Students will have an opportunity to come into contact with corporate culture and corporate world, company executives and HR officials so that they have an understanding of the corporate ambiance in advance.
- To enable students grab opportunities overseas besides getting placed in MNCs. (Level V companies)
- Students will have an opportunity to know about the recent trends, latest technologies and software along with other requirements of the companies.
- The Cell is enabled to share all the updated information about the changing scenario of the requirements of the recruitment processes.
- All such measures enable the Cell to send out Industry ready students as fully finished products to the outside world.
- Keeping the updates in the recruitment processes, the training methodologies are also reviewed and revised periodically.

CHALLENGES

- It is a big challenge to the trainers to make the native speakers use right English and develop English speaking on Campus.
 - To make NRI IT Campus as English Speaking Zone.
 - To provide 100% placement to our students.
 - The toughest challenge is to place the best students of our Institution in the world pioneering Companies like Google, Micro Soft, Amazon, etc.,
 - To place our students of EEE, ECE, CSE, IT, MCA, ME and CE in the core companies relating to their respective branches.
 - To groom our students as per the need, nurture them properly to right attitude and kindle the right spirit among them to meet the prerequisites of the industry is another challenging challenge.
-

- To promote right attitude among the students and this helps them to reach the zenith in their career.

DETAILS OF FACULTY MEMBERS REGISTERED FOR Ph.D.

S.No	Name	Department	Year of Registration	Name of the Guide and Topic	Name of University
1	Ch. Chandra Sekhara Srinivas	CIVIL	2011	Dr. T. D. Gunneswara Rao	NIT, Warangal
2	K. Bhaskara Rao	CIVIL	2010	Prof. E.N.Dhanam Raja Rao Topic : Study on Degradation of Kolleru Lake by using Remote Sensing	Andhra University
3	Md. Bibi Jarina	CIVIL	2016	Dr. A. Amruthavalli Topic : Biological Decay fo Post Harvest Decay Problems in Chilli	ANU, Guntur
4	Y. Lalitha Kameswari	EEE	2017	Dr. O. Chandra Sekhar Topic : PE&D Multilevel Inverters	KL University
5	Syam Babu Nutalapati	MECHANICAL	2015	Dr. D. Azad Dr. Swami Naidu	JNTUK
6	P. Bharathi	MECHANICAL	2014	Dr. G. Srinivasa Rao Topic : Materials	ANU, Guntur

7	K. Mani Kumar	MECHANICAL	2016	Dr. N. Govind Garu Topic : Composites (MMC)	ANU, Guntur
8	T. Rajendra Prasad	MECHANICAL	2011	Dr. K. Rama Krishna	JNTUH
9	K. Vidya	MECHANICAL	2014	Dr. P. Suresh Babu Topic : Optimization of Parameters	ANU, Guntur
10	J. Sampath Suresh	MECHANICAL	2010 (Submitted February, 2017)	Dr. M. Pramila Devi Composites	ANU, Guntur
11	V. Mohan Manoj Guptha	MECHANICAL	2016	Dr. K. Meera Saheb	JNTUK
12	R. Sunitha	ECE	2014	Dr. M. Suman Image Processing	KL University
13	S.A. Rehman	ECE	2012	Dr. K. Sri Rama Krishna UWB Antennas	ANU, Guntur
14	S.V. Rama Rao	ECE	2013	Dr. A.M. Prasad Smart Antennas	JNTUK
15	V. Srinivasa Rao	ECE	2016	Dr. Danekar Signal Processing	NIT, Kurukshethra
16	M.S.S.S. Srinivas	ECE	2013	Dr. T.V. Rama Krishna Antennas	KL University
17	Y. Arpitha	ECE	2014	Dr. G.L.Madhumati VLSI Design	JNTUK
18	N. Srikanth	ECE	2013	Dr. Ganga Prasad	KL

				Wireless Network	University
19	K. Prathyusha	ECE	2014	Dr. A.S.C.S. Sastry Embedded Systems	KL University
20	B. Swathi	ECE	2016	Dr. M. Sunil Prakash Wireless Communication	JNTUK
21	M. Suneel	ECE	2014	Dr. T. Ranga Babu Embedded Systems and VLSI	ANU, Guntur
22	M. Poorna Kishore	ECE	2016	Dr. B.T.P. Madhav Antennas	KL University
23	B.B.K. Prasad	CSE	2015	Dr. A. Ananda Rao Big Data	JNTUA
24	Bh. Dasaradha Ram	CSE	2014	Dr. R. Satya Prasad (High Dimensional Data)	ANU, Guntur
25	Sk. Mahaboob Basha	CSE	2014	Dr. D. Nagaraju	ANU, Guntur
26	Ch. Surya Kiran	CSE	2014	Dr. R. Satya Prasad S/w Reliability Engg.	ANU, Guntur
27	D. Suneetha	CSE	2014	Dr. R. Kiran Kumar Security for Cloud (CloudComputing)	KU

28	K. Vamsi Krishna	CSE	2014	Dr. B. Basaveswara Rao Cloud Computing	ANU, Guntur
29	M. Aruna Safali	CSE	2014	Dr. Ch. Suneetha Big Data	ANU, Guntur
30	P. Anusha	CSE	2014	Dr. P.S.R. Murthy Data Mining	ANU, Guntur
31	V. Sudhakara Rao	IT	2015	Dr. M. Nandhini Graph Theory	Pondicherry University
32	Ch.V. Murali Krishna	IT	2014	Dr. G. Apparao Recommended System	GITAM University
33	B. Mouleswara Rao	MCA	2014	Dr. Y. Srinivas High Utility Item Set Mining	GITAM University
34	K. Udayasri	MCA	2012	Dr. J. Rajesh Chowdary HRM	ANU, Guntur
35	T. Sreelatha	T&P	2013	Dr. N. Asharudeen Treatment of Women in the Select Works of Kamala Das and Anita Ram Badami"	Karpagam University
36	B.V.S. Prasad	T&P	2014	Dr. Rathna Seela "Portrayal of Family Relations in the Novels of Amitav Ghost)	ANU, Guntur
37	M.Babu Prasad	BS&H	2009	Dr. Bhavanari Satyanarayana Near Rings)	Dravideam

38	D. Srinivasulu	BS&H	2011	Dr. Bhavanari Satyanarayana Algebra - Graihtherory	ANU, Guntur
39	G. Krishna Priya	BS&H	2014	Dr. V. Aruna Magneto Electrics	ANU, Guntur
40	Ch. Chandra Kala	BS&H	2016	Dr. G. Naga Raju Glass Science	ANU, Guntur
41	M.S.Swarn a Pushpa	BS&H	2016	Dr. T. Raja Rajeswari Validation & Est of Drug Using HPLC & Spec	ANU, Guntur
42	A. Sombabu	BS&H	2016	Prof. K. Pandu Ranga Rao Fixed Point Theory	ANU, Guntur
43	D. Vijaya Kumar	BS&H	2014	Dr. Gangadhar Fluid Dynamics	ANU, Guntur
44	Y. Madhavi	BS&H	2010	Prof. Sasi Kiran indian Literature	ANU, Guntur
45	D. Radhika	BS&H	2011	Prof. R. Saraswathi American Literature (New Woman)	ANU, Guntur