



Yearly Status Report - 2018-2019

Part A

Data of the Institution

1. Name of the Institution		NRI INSTITUTE OF TECHNOLOGY
Name of the head of the Institution		Dr.C.Naga Bhaskar
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		08662469665
Mobile no.		8333882444
Registered Email		nrihitech@rediffmail.com
Alternate Email		cnbhaskar@gmail.com
Address		Pothavarapadu(V), via Nunna, Agiripalli(M)
City/Town		Vijayawada (Rural), Krishna District
State/UT		Andhra Pradesh
Pincode		521212

2. Institutional Status	
Autonomous Status (Provide date of Conformant of Autonomous Status)	19-Jul-2017
Type of Institution	Co-education
Location	Rural
Financial Status	private
Name of the IQAC co-ordinator/Director	Mr.R.Vijay Krishna
Phone no/Alternate Phone no.	08662469666
Mobile no.	8331942954
Registered Email	nri.iqac@gmail.com
Alternate Email	nrihitech@rediffmail.com

3. Website Address	
Web-link of the AQAR: (Previous Academic Year)	https://www.nrigroupofcolleges.com/nriit/pdf/AQAR-2017-2018.pdf
4. Whether Academic Calendar prepared during the year	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	https://www.nrigroupofcolleges.com/automaticscalenders.html

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	A	3.21	2017	19-Jul-2017	18-Jul-2022

6. Date of Establishment of IQAC	20-Dec-2012
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7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by	Date & Duration	Number of participants/ beneficiaries

IQAC		
NPTEL ONLINE COURSES - FACULTY	27-Apr-2019 28	229
NPTEL ONLINE COURSES - STUDENTS	28-Apr-2019 28	150
I.S.O Certification	25-Mar-2019 1	188
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8. Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
ENTREPRENEURSHIP DEVELOPMENT CELL	DST NIMAT Project 2018:2019	DST	2018 9	60000
Dr.K.V.SAMBASIVA RAO	Nodal Centre of Andhra CM's Skill Excellence Center	APSSDC	2018 2	7000000
Dr.C.Naga Bhaskar	Dassault Skill Development Center	APSSDC	2018 2	6000000
Dr.C.Naga Bhaskar	PMKVY	AICTE	2018 2	3000000
Dr.P.Rama Koteswara Rao	Unnat Bharat Abhiyan	AICTE	2018 2	500000
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9. Whether composition of IQAC as per latest NAAC guidelines:	Yes
Upload latest notification of formation of IQAC	View File
10. Number of IQAC meetings held during the year :	5
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	View File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No

12. Significant contributions made by IQAC during the current year(maximum five bullets)

1. IQAC implemented the process of online attendance monitoring system and also teaching diary to continuously monitor and improve teaching learning process through online portal developed by the institute 2. Various social responsible activities were conducted through NSS 3. Orientation programme was organized at the beginning of the academic year. 4. Faculty Students are encouraged to undergo NPTEL Online courses and attend for the exam as an effect total 229 faculty and 150 students had got benefited through various NPTEL Online courses. 5. Workshops and Activities are conducted in the Institute as a part of Quality Improvement Programme.

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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achievements/Outcomes
Enhancing more Soft skills and CPT classes to enhance placement opportunities	Accordingly TP classes are inducted into regular class time tables and a separate CRT (Campus Recruitment Training) was also provided to the Final year students
Enhancing Faculty Qualification to boost up research work	Faculty are encouraged to register for Ph.D and also encouraged to publish papers in reputed National/International Journals
Academic Audit	Academic Audits are conducted in every academic year with two internal audits and one external academic audit
Online feedback system	In every semester student online feedback was taken to ensure quality of teaching
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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
College Academic Committee	12-Jun-2019

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?

Yes

Date of Visit

25-Mar-2019

16. Whether institutional data submitted to

Yes

AISHE:	
Year of Submission	2018
Date of Submission	11-Jan-2019
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	The Management had directed the following after reviewing A.Q.A.R 2018:2019 1. Develop Quality Parameters as per I.S.O 9001:2015 for the Institution 2. Develop NRIIT quality framework that integrates I.S.O and other quality Institutes requirements 3. Increase in number of collaborations through MoUs with various reputed organizations. 4. To conduct Academic Audits 5. More emphasis on research work and Q.I.P

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BTech	01,02,03,04,05,12	CIVIL,EEE,ME,ECE,CSE,IT	28/07/2018
Mtech	21, 38, 52, 58, 87	SE,PED,TE,DEC,CSE	28/07/2018
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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
No Data Entered/Not Applicable !!!				
No file uploaded.				

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
No Data Entered/Not Applicable !!!		
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
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BTech	ECE	28/07/2018
BTech	EEE	28/07/2018
BTech	CSE	28/07/2018
BTech	IT	28/07/2018
BTech	CIVIL ENGINEERING	28/07/2018
BTech	MECHANICAL ENGINEERING	28/07/2018
Mtech	COMPUTER SCIENCE AND ENGINEERING	28/07/2018
Mtech	Digital Electronics and Communication Systems	28/07/2018
Mtech	Power Electronics and Drives	28/07/2018
Mtech	Structural Engineering	28/07/2018
Mtech	THERMAL ENGINEERING	28/07/2018
MCA	MCA	28/07/2018

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Guest Lecture on Modern Trends in Broadcasting	15/09/2018	85
Workshop on "SCILAB"	24/09/2018	126
Workshop on "Quad Copter Development"	19/12/2018	92
Workshop on "PCB Design"	28/01/2019	186
Seminar on "Awareness program of Environmental Hazards of Electronic Waste"	12/02/2019	220
Workshop on Web Technologies	23/08/2018	181
Workshop on Python Programming	28/07/2018	175
Workshop on Advanced Land Surveying using Total Station	11/02/2019	55
Workshop on Amazon Web Services	24/11/2018	75
Workshop on Designing Solar PV Systems	01/03/2019	51
Work Shop On Amazon Web Services	12/12/2018	50
Work Shop On Python Programing	04/09/2018	50
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	E.E.E	27
BTech	CIVIL ENGINEERING	26
BTech	I.T	3
BTech	C.S.E	3
BTech	E.C.E	5
BTech	MECHANICAL ENGINEERING	14
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained
<p>Online feedback is collected from the current students on a 5 point scale and the Heads of the Departments periodically review the feedback. They give constructive comments to improve the quality of teaching and the teaching learning process for those faculty members who have secured low scores and negative comments, if any, in the feedback. This motivates them to improve their skills and abilities. If required training / orientation programmes are conducted/provided by professional experts to master the skills of the faculty members, thus improving the efficiency of teaching process. Alumni feedback is taken periodically to understand the emerging market trend. Feedback from the parents on curriculum, placements and teaching methodology is obtained during Parent - Teacher meeting sessions.</p>

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BTech	ECE	180	179	179
BTech	EEE	60	57	57
BTech	CSE	180	180	180
BTech	IT	60	58	58
BTech	CIVIL	120	62	62
BTech	MECHANICAL	180	69	69
Mtech	Digital Electronics and	18	6	6

	Communication Systems (ECE)			
Mtech	Power Electronics and Drives (EEE)	18	16	16
Mtech	COMPUTER SCIENCE AND ENGINEERING. (CSE)	36	13	13
Mtech	Structural Engineering (CIVIL)	24	24	24
Mtech	THERMAL ENGINEERING (MECHANICAL)	24	17	17
MCA	MCA	60	3	3
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2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	2939	139	180	8	0

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
188	170	46	46	16	8

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

The Institution has a system where a group of 20 students will be allotted to the faculty who will be acting as the Mentor/Counsellor. Their attendance, marks and performance will be regularly monitored by the mentor and corrective measures are initiated whenever needed through counselling by the mentor or by the Head of Department. Student profile which is collected at the time of their admission like their economic conditions, medium of instruction, etc., helps their incharge teacher to counsel them effectively. The record is kept updated till the students complete their degree and the status will be informed to Parents/Guardians regularly.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
3078	188	1:16

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D

188	150	38	38	8
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2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2018	CH.V.MURALI KRISHNA	Associate Professor	BEST RESEARCHER AWARD
2018	K.PRATHYUSHA	Assistant Professor	EXCELLENCE IN REVIEWING
2018	Y.ARPITHA	Associate Professor	BEST YOUNG RESEARCHER
2018	P.NARENDRA BABU	Associate Professor	YOUNG SCIENTIST

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2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BTech	01, 02,03,04,05,12	I/I	08/12/2018	31/12/2018
BTech	01, 02,03,04,05,12	II/I	08/11/2018	26/12/2018
BTech	01, 02,03,04,05,12	III/I	06/11/2018	15/12/2018
BTech	01, 02,03,04,05,12	IV/I	08/11/2018	04/12/2018
BTech	01, 02,03,04,05,12	I/II	03/05/2019	06/06/2019
BTech	01, 02,03,04,05,12	II/II	08/05/2019	19/06/2019
BTech	01, 02,03,04,05,12	III/II	07/05/2019	07/06/2019
BTech	01, 02,03,04,05,12	IV/II	27/04/2019	26/05/2019
Mtech	21,38,52,58,87	I/I	04/01/2019	12/01/2019
Mtech	21,38,52,58,87	I/II	05/07/2019	24/09/2019
MCA	00	I/I	02/01/2019	12/01/2019
MCA	00	I/II	03/07/2019	28/09/2019

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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances	Total number of students appeared	Percentage
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about evaluation	in the examination	
1	641	0.15

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<http://www.nrigroupofcolleges.com/nriit/pdf/igac/co-po-pso.html>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
01	BTech	CIVIL ENGINEERING	115	72	63
02	BTech	EEE	61	51	84
03	BTech	MECHANICAL ENGINEERING	173	132	76
04	BTech	ECE	196	152	78
05	BTech	CSE	167	125	75
12	BTech	IT	57	45	79
87	Mtech	STRUCTURAL ENGINEERING	24	17	70.83
52	Mtech	Power Electronics and Drives (EEE)	16	13	81.25
21	Mtech	THERMAL ENGINEERING (MECHANICAL)	12	6	50
38	Mtech	Digital Electronics and Communication Systems (ECE)	5	5	100
58	Mtech	COMPUTER SCIENCE AND ENGINEERING. (CSE)	10	4	40
00	MCA	MCA	3	2	66.67

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2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<http://www.nrigroupofcolleges.com/nriit/pdf/igac/sss-report2018-19.html>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

3.1.1 – The institution provides seed money to its teachers for research

No

No file uploaded.

3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
No Data Entered/Not Applicable !!!				
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3.2 – Resource Mobilization for Research

3.2.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Any Other (Specify)	2	AICTE	500000	200000
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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

No Data Entered/Not Applicable !!!

3.3 – Innovation Ecosystem

3.3.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
JOURNEY OF EMBEDDED SYSTEMS TO IOT	ECE	04/08/2018
EMERGING TRENDS IN BROADCASTING	ECE	15/09/2018
ELECTRONIC DEVICES CONTROL SYSTEMS	ECE	20/09/2018
SCILAB	ECE	24/09/2018
QUAD COPTER DEVELOPMENT	ECE	19/12/2018
PCB DESIGN	ECE	28/01/2019
ADVANCED APPLICATIONS OF IOT	ECE	22/02/2019
PYTHON PROGRAMMING	MCA	28/07/2018
PREENGINEERED STEEL BUILDING EVALUATION AND TRENDS	CIVIL	29/12/2018
DATABASE TECHNOLOGY	MCA	14/07/2018
PYTHON PROGRAMMING	CSE	28/07/2018
AMAZON WEB SERVICES	CSE	24/11/2018

WEB TECHNOLOGIES	CSE	23/08/2018
SOLAR PV SYSTEMS	EEE	01/03/2019
BIG DATA	CSE	22/11/2018
DATA STRUCTURE ALGORITHM	CSE	05/08/2018
INTERACTION TO TECHNOLOGY and IT INDUSTRY	CSE	07/07/2018
DATABASE TECHNOLOGY	CSE	14/07/2018
AMAZON WEB SERVICES	CSE	23/07/2018
DEVOPS	CSE	14/07/2018
SOFTWARE PROJECT MANAGEMENT and ESTIMATION of COST	CSE	12/12/2018
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3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Best Young Researcher	Y.Arptha	IRDP Agency	28/10/2018	Research
Certificate of Excellence in Reviewing	K.Prathyusha	Journal of Experimental Agriculture International	30/11/2018	Reviewing
Certificate of Excellence in Reviewing	K.Prathyusha	Current Journal of Applied Science Technology	30/11/2018	Reviewing
Best Researcher Award	Ch.V.Murali Krishna	IOSRD	21/07/2018	Research
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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
No Data Entered/Not Applicable !!!					
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3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Freshman Engineering Department	1
CSE	2
Mechanical Engineering	1

3.4.2 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
National	Freshman	2	1

	Engineering Department		
International	Freshman Engineering Department	11	2
International	EEE	12	4
International	ECE	11	1.8
International	MCA	2	2.1
International	CIVIL	4	3.2
International	CSE	13	4.5
International	IT	1	2
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3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Freshman Engineering Department	5
EEE	2
ECE	5
CSE	3
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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
Automatic Bike turning Indicator using 555IC	Filed	1841031036	20/08/2018
A deep learning model for student fututre prediction	Published	1941020783	07/06/2019
NOVEL JOINT CHAINING GRAPH MODEL FOR HUMAN POSE ESTIMATION ON 2D ACTION VIDEOS AND FACIAL POSE	Filed	1841031037	20/08/2018
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3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Flower Image Segmentation using Watershed	Sunitha Ravi	ARPN Journal of Engineering and Applied	2018	0	KLU	0

and Marker Controlled Watershed Transform Domain Algorithm		Sciences (Scopus)				
Efficient Clustering Protocol Using Fuzzy K means and Midpoint Algorithm for Lifetime Improvement in WSNs	Srikanth. N	International Journal of Intelligent Engineering Systems	2018	1	KLU	0
Wideband Defected Ground Structured Monopole Antenna with Electromagnetic Band Gap Loading.	M.S.S.S. Srinivas	Journal of Engineering and Applied Sciences	2018	2	KLU	30
Bandwidth enhanced CPW fed elliptical wideband antenna with slotted defected ground structure	M. Purna Kishore	International Journal of Engineering Technology	2018	0	NRI	0
Energy efficient enhanced tree structured compression model (ET CM) for data aggregation in wireless sensor	Srikanth. N	International Journal of Engineering and Technology	2018	0	KLU	0
A deep learning process for spine	N. Ramya	Journal of International Pharmaceutical	2018	0	NRI	0

and heart segmentati on using pixelbased convolutio nal networks.		Research				
Unequally Spaced Linear Antenna Array Synthesis with Minimum Side Lobe Levels Using Modified Differential	S.V. Rama Rao	Internatio nal Journal of Innovative Technology and Exploring Engineerin g	2019	2	JNTUK	1
Malicious Node Ident ification In Energy Efficient Trust Node Based Routing Protocol (MEetrp) For Lifetime	N.Srikanth	Internatio nal Journal of Innovative Technology and Exploring Engineerin g	2019	0	NRI	0
Energy Efficient Trust Node Based Routing Protocol (EETRP) to Maximize the Lifetime of Wireless Sensor Networks in	N.Srikanth	Internatio nal Journal of Online Eng ineering	2019	0	NRI	0
Efficient Energy Clustering Protocol Using Genetic Algorithm in	N.Srikanth	Journal of Engineerin g Science and Technology	2018	0	NRI	0

Wireless Sensor Networks						
Green Comp Based Energy Efficient Data Aggregation Algorithm With Malicious Node Identification (GeedM) For Lifetime Improvement In WSN COMPUSOFT	N.Srikanth	An international journal of advanced computer technology	2018	0	NRI	0
Optimal Design and Synthesis of Linear Antenna Array Using Social Group Optimization Technique	S.A. Rahiman	International Journal Of Innovative Technology And Exploring Engineering	2019	0	NRI	0
A CPWFed Elliptically Curved Antenna Design for Multiband Operation with Metamaterial Loading	M. P. Kishore	International Journal Of Innovative Technology And Exploring Engineering	2019	0	NRI	0
PAPR Reduction in OFDM Using Hybrid Genetic and Tone Injection Algorithms.	Dr.K.Krishnamurthy	International Journal of Applied Engineering Research	2018	0	ANU	0
Privacy Policy Using Content and	Dr.K.V. Sambasiva Rao	International Journal of Emerging Technology	2018	0	NRI	0

Metadata Based Search with Image Security		in Computer Science Electronics				
Data Hiding using Cascading Feed Forward Network prime number Edge based Steganography	Dr D Ratna Kishore	Grenze International Journal of Engineering and Technology	2018	0	NRI	0
A Fast KNN Based Intrusion Detection System For Cloud Environment	Dr. K.Swathi	Jour of Adv Research in Dynamical Control Systems	2018	0	NRI	0
Comparison of Feature Selection Approaches through PDSKNN Classifier for NIDS	Swathi	Jour of Adv Research in Dynamical Control Systems	2018	0	NRI	0
Effective Pattern Discovery for Text Mining	Dr. K.Sowmya	Jour of Adv Research in Dynamical Control Systems	2018	0	NRI	0
Analysis of Theoretical Sampling Distributed using combined LPETM and ANOM subgrouping	Dr. K.Sowmya	Jour of Adv Research in Dynamical Control Systems	2018	0	NRI	0
Strengthening of Reinforced concrete Rectangular Columns using FRP	P.Urmila	International Journal of Engineering and Advanced Technology	2018	1	NRI	10

sheets						
Evolution of Drainage and surface water resources of Brahmalyalingam lake in Agiripalli mandal, Krishna district, India,	P.Urmila	International Journal of Recent Technology and Engineering	2019	1	NRI	10
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3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Efficient Energy Clustering Protocol Using Genetic Algorithm in Wireless Sensor Networks	N.Srikanth	Journal of Engineering Science and Technology	2018	0	0	NRI
Flower Image Segmentation using Watershed and Marker Controlled Watershed Transform Domain Algorithm	Sunitha Ravi	ARPN Journal of Engineering and Applied Sciences (Scopus)	2018	0	0	KLU
Efficient Clustering Protocol Using Fuzzy K means and Midpoint Algorithm for Lifetime Improvement	Srikanth. N	International Journal of Intelligent Engineering Systems	2018	0	1	KLU

in WSNs						
Wideband Defected Ground Structured Monopole Antenna with Electromagnetic Band Gap Loading.	M.S.S.S. Srinivas	Journal of Engineering and Applied Sciences	2018	0	30	KLU
Bandwidth enhanced CPW fed elliptical wideband antenna with slotted defected ground structure	M. Purna Kishore	International Journal of Engineering Technology	2018	0	0	NRI
Energy efficient enhanced tree structured compression model (ET CM) for data aggregation in wireless sensor networks	Srikanth. N	International Journal of Engineering and Technology	2018	0	0	KLU
A deep learning process for spine and heart segmentation using pixelbased convolutional networks.	N. Ramya	Journal of International Pharmaceutical Research	2018	0	0	NRI
Unequally Spaced Linear Antenna Array Synthesis with Minimum Side Lobe	S.V. Rama Rao	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	2019	1	2	JNTUK

Levels Using Modified Differential Evolution Algorithm						
Malicious Node Identification In Energy Efficient Trust Node Based Routing Protocol (MEetrp) For Lifetime Improvement In WSN	N.Srikanth	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	2019	0	0	NRI
Energy Efficient Trust Node Based Routing Protocol (EETRP) to Maximize the Lifetime of Wireless Sensor Networks in Plateaus	N.Srikanth	International Journal of Online Engineering	2019	0	0	NRI
Green Comp Based Energy Efficient Data Aggregation Algorithm With Malicious Node Identification (GeedM) For Lifetime Improvement In WSN COMPUSOFT	N.Srikanth	An international journal of advanced computer technology	2018	0	0	NRI
Optimal Design and	S.A. Rahiman	International	2019	0	0	NRI

Synthesis of Linear Antenna Array Using Social Group Optimization Technique		Journal Of Innovative Technology And Exploring Engineering (IJITEE)				
A CPWFed Elliptically Curved Antenna Design for Multiband Operation with Metamaterial Loading	M. P. Kishore	International Journal Of Innovative Technology And Exploring Engineering (IJITEE)	2019	0	0	NRI
PAPR Reduction in OFDM Using Hybrid Genetic and Tone Injection Algorithms.	Dr.K.Krishnamurthy	International Journal of Applied Engineering Research	2018	0	0	ANU
Privacy Policy Using Content and Metadata Based Search with Image Security	Dr.K.V. Sambasiva Rao	International Journal of Emerging Technology in Computer Science Electronics (IJETCSE)	2018	0	0	NRI
Data Hiding using Cascading Feed Forward Network prime number Edge based Steganography	Dr D Ratna Kishore	Grenze International Journal of Engineering and Technology	2018	0	0	NRI
A Fast KNN Based Intrusion Detection System For	Dr. K.Swathi	Jour of Adv Research in Dynamical	2018	0	0	NRI

Cloud Environment		Control Systems				
Comparison of Feature Selection Approaches through PDSKNN Classifier for NIDS	Dr. K.Swathi	Jour of Adv Research in Dynamical Control Systems	2018	0	0	NRI
Effective Pattern Discovery for Text Mining	Dr. K.Sowmya	Jour of Adv Research in Dynamical Control Systems	2018	0	0	NRI
Analysis of Theoretical Sampling Distributed using combined LPETM and ANOM subgrouping	Dr. K.Sowmya	Jour of Adv Research in Dynamical Control Systems	2018	0	0	NRI
Strengthening of Reinforced concrete Rectangular Columns using FRP sheets	P.Urmila	International Journal of Engineering and Advanced Technology	2018	1	10	NRI
Evolution of Drainage and surface water resources of Brahmayingam lake in Agiripalli mandal, Krishna district, India, Using Geospatial technologies	P.Urmila	International Journal of Recent Technology and Engineering	2019	1	10	NRI
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3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	0	66	0	0
Presented papers	17	8	0	0

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3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
EEE	200 kW Solar Power Plant	APSPDCL	300000
EEE	House Wiring	NRI Group of Colleges	7500
EEE	Electrical Auditing	NRI Group of Colleges	5000
CIVIL	Light Weight Bricks	Rajeswari Harinacon Blocks	1800
CIVIL	Concrete Core Samples	CIST Infrastructure	6500
CIVIL	Light Weight Bricks	Rajeswari Harinacon Blocks	3600
CIVIL	SBC of Soil	Metropolitan Mission Children Home	4500
CSE	TCS ION	TCS	2500000

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3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
No Data Entered/Not Applicable !!!				
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3.6 – Extension Activities

3.6.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Creating Awareness about welfare schemes offered by the Government	NRI NSS UNIT	4	24
FREE Medical Camp	NRI NSS UNIT	7	14
Green Vision Awareness	NRI NSS UNIT	7	21

FREE Distribution of Academic Needs	NRI NSS UNIT	7	20
Digital India Awareness	NRI NSS UNIT	7	12
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3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
No Data Entered/Not Applicable !!!			
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3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Swachhta hi seva	NRI NSS UNIT	Swachh Bharat Campaign	7	42
SVEEP Campaign	NRI NSS UNIT with Police Department	Election Duty	4	110
Helping Hands	NRI NSS UNIT	Serve the Physicall challenged and old age people	2	7
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3.7 – Collaborations

3.7.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Skill training program	SC/ST/OBC/Women and Weaker sections	CSR intiative of corporate sector in India	2
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3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Research Training in Robotics	Research Partner	ARC Labs, Germany	07/03/2019	31/12/2019	Faculty/ Students
Research Col laboration	Research Partner	NM State University	19/11/2018	31/12/2019	Faculty/ Students

Research Collaboration	Research Partner	Lincoln Universities for Research and PhD Program	01/01/2018	31/12/2019	Faculty
Research Training and Development	Research and Training	Unique Survey Solutions	06/03/2019	31/12/2019	Faculty/Students
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3.7.3 – MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Headrun Technologies Pvt. Ltd, Hyderabad	02/01/2019	Campus Recruitments	226
Pavan IAS Academy, New Delhi	11/09/2018	Competitive Exam Coaching	146
German Center for Engineering and Management Studies, Germany	14/09/2018	Abroad Education	135
Microlink Peripherals Control Ltd	18/09/2018	PCB design workshop	186
SRC eSolutions	05/09/2018	Mini projects	90
Storm International Group Private Limited, Australia	02/01/2018	Overseas Education	50
Future NDT, Vijayawada	03/01/2018	Placements Assistance	80
Campus Career	08/01/2018	Placements Assistance	150
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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
330	345.39

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Classrooms with Wi-Fi OR LAN	Existing
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing

Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
Video Centre	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing

4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
EZ LIBRARY	Fully	10.0	2011

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	18543	5707939	1746	1463520	20289	7171459
Reference Books	2631	1295500	100	50600	2731	1346100
e-Books	10100	33000	2050	22400	12150	55400
Journals	101	281520	101	281520	202	563040
e-Journals	6	1200000	2	360000	8	1560000
Digital Database	5	70800	0	0	5	70800
CD & Video	1138	0	121	0	1259	0
Library Automation	0	25000	0	25000	0	50000
Weeding (hard & soft)	32518	8613759	4118	2203040	36636	10816799

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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
G.Karunakar	Operating System	Institutional Learning Management System	16/07/2018
D.Ratna kishore	Human Activity Detection	Institutional Learning Management System	02/06/2018
Ch.Surya Kiran	C Programming	Institutional Learning Management	14/08/2018

		System	
Ch.Surya Kiran	Software Engineering	Institutional Learning Management System	14/06/2018
P.Narendra Babu	UML	Institutional Learning Management System	04/08/2018
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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MGBPS)	Others
Existing	974	12	100	2	126	10	30	100	0
Added	150	0	100	0	0	0	0	0	0
Total	1124	12	200	2	126	10	30	100	0

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

200 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
No Data Entered/Not Applicable !!!	

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
115	120.04	575	569.84

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website)

1. The Institution provides for adequate availability of physical infrastructure for conduct of Academic, Sports and other Cocurricular activities, optimum utilization of academic assets like Classrooms, Labs and Workshop. The fact that the Institution today, has an excellent infrastructure, bears testimony to a well established system of fore seeing requirements, planning ahead and project execution with a vision and then maintains the assets created to the highest standards. 2. All faculty members have been provided staff room other related rooms 3. Student common rooms are available. 4. Library is well equipped and is completely automated and high speed internet bandwidth is available. 5. Sports / Cultural Activities To promote students interest in sports and cultural activities. 6. An annual budget for maintenance of all Infrastructure facilities is catered for at the beginning of the year. 7. Maintenance of the Infrastructure Physical Infrastructure, maintained in house through a team of masons, Carpenters, Electricians Plumbers. 8.

Maintenance of Service (Electrical, Plumbing and Sewage) and all other services are maintained by our in house team.

<http://www.nrigroupofcolleges.com/nriit/pdf/igac/procedures-policies.html>

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Merit Fee Concession	528	1500000
Financial Support from Other Sources			
a) National	0	0	0
b) International	0	0	0
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Remedial Classes	18/02/2019	284	NRIIT
Student Mentoring	16/07/2018	1196	NRIIT
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2018	Higher Education Employment	40	275	15	0
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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
3	3	2

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed

Automotive Manufactures	94	15	TCS Ninja Code Vita	312	38
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2018	1	B.TECH	ECE	SWINBURNE UNIVERSITY of TECHNOLOGY	MS
2018	1	B.TECH	ECE	SOUTHERN CROSS UNIVERSITY	MS
2018	1	B.TECH	ECE	NRI Institute of Technology	M.Tech
2018	1	B.TECH	ECE	SVU College of Engineering	M.Tech
2018	1	B.TECH	ECE	DSU Dakota State	MS
2018	1	B.TECH	ECE	Amritha Sai Institute of Science Technology	M.Tech
2018	1	B.TECH	ECE	Laurea Magistrale	MS
2018	1	B.TECH	ECE	Veda IIT	MS
2018	1	B.TECH	EEE	UCLAN University	MS
2018	6	B.TECH	EEE	NRI Insitute of Technology	M.Tech
2018	1	B.TECH	EEE	Lingaya's Institute	M.Tech
2018	1	B.TECH	EEE	Sarathi Institute	M.B.A
2018	1	B.TECH	IT	Central Queensland University	Master of Information Technology
2018	1	B.TECH	IT	CQ University	Master of Information Systems
2018	1	B.TECH	IT	Swinburne University of Technology	Master of Information Technology

2018	3	B.TECH	CE	NRI Institute of Technology	M.Tech
2018	1	B.TECH	ME	RVR & JC College of Engineering	M.Tech
2018	1	B.TECH	ME	Paladugu Parvathi College of Engineering & Technology	M.Tech
2018	1	B.TECH	ME	KL University	M.Tech
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	1
GRE	4
TOFEL	1
Any Other	1
View File	

5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Kabaddi	State Level Inter Collegiate Tournaments	17
Badminton	State Level Inter Collegiate Tournaments	5
Cricket	State Level Inter Collegiate Tournaments	16
Volley Ball	State Level Inter Collegiate Tournaments	1
View File		

5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2018	Poster Presentation Prize	National	0	1	16KN1A04B1	S.RAHUL
2018	Technical Quiz-I Prize	National	0	1	17KN5A0406	P.GOVARDHANA
2018	Crypto	National	0	1	16KN1A04E5	M.SRAVYA

	Knights-I Prize					
2018	Electro Blitz-I Prize	National	0	1	16KN1A04B1	S.RAHUL
2018	Mind Maze-I Prize	National	0	1	16KN1A0434	G.KOUSALYA
2018	Paper Presentation-I Prize	National	0	1	17KN1A04G3	V.P.S HARISH
2018	Adaptrix-II Prize	National	0	1	16KN1A04E5	M.SRAVYA
2018	Tech Hund-II Prize	National	0	1	17KN1A04G6	K.N.S HEMA
2018	Poster Presentation-II Prize	National	0	1	17KN1A04G6	K.N.S HEMA
2018	Technical Quiz- II Prize	National	0	1	16KN1A0434	G.KOUSALYA
2018	Poster Presentation-II Prize	National	0	1	17KN1A04A3	M.KEERTHIKA
2018	Circuit Debugging-II Prize	National	0	1	16KN1A04C5	B.SOWJANYA
2018	Technical Quiz-III Prize	National	0	1	17KN1A0407	P.USHASWINI
2018	Poster Presentation-III Prize	National	0	1	16KN1A04A8	SK.NASREEN
2019	Project Expo	National	0	1	16KN5A0202	D.YOGENDHAR REDDY
2019	Paper Presentation	National	0	1	16KN1A0201	A.SAI PRANEETH
2019	Circuit Designing and Debugging	National	0	1	16KN1A0232	R.JAYA SANKAR KASYAP
2019	Project Expo	National	0	1	16KN1A0139	K.NAVEEN
2018	Paper Presentation	National	0	1	16KN1A0132	K.LEELA VARDHAN
2018	Project Expo	National	0	1	16KN1A0135	K.PREETHI
2018	Spot Model Making	National	0	1	16KN1A0132	K.LEELA VARDHAN
2018	Paper Presentation	National	0	1	16KN5A0118	T.ANIL KUMAR

2018	Project Expo	National	0	1	16KN5A0118	T.ANIL KUMAR
2018	Spot Model Making	National	0	1	16KN5A0118	T.ANIL KUMAR
2018	Project Expo	National	0	1	16KN1A0147	L.CHANDRIKA
2018	Spot Model Making	National	0	1	16KN1A0147	L.CHANDRIKA
2018	Model Expo	National	0	1	16KN1A0123	E.SANDHYA RANI
2018	Paper Presentation	National	0	1	16KN1A0123	E.SANDHYA RANI
2018	Bridge It	National	0	1	16KN1A0132	K.LEELA VARDHAN
2018	Bridge It	National	0	1	16KN5A0118	T.ANIL KUMAR
2018	Bridge It	National	0	1	16KN1A0123	E.SANDHYA RANI
2018	Potential Professor	National	0	1	16KN1A0123	E.SANDHYA RANI
2018	Paper Presentation	National	0	1	17KN5A0112	T.JAGADEESH
2018	Poster Presentation	National	0	1	18KN5A0104	M.GOWTHAM
2019	Paper Presentation	National	0	1	18KN5A0327	N.GOWTHAM
2019	Poster Presentation	National	0	1	18KN5A0327	N.GOWTHAM
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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

To explore the hidden talents of the students, Institute had inaugurated various clubs like Literay, Ramanujan, Galileo Clubs. Students are given different roles in the clubs. These will develop leadership qualities, organising skills and interactive skills of the students. Various activities are conducted for each club and to inculcate service motive in the students, they are encouraged to be a part of NSS.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The NRIIT is truly proud of its brilliant alumni who are currently positioned all over the globe and have distinguished themselves in all spheres of high end engineering and technology. The main aim of the Alumni Association NRIIT is to coordinate the networking of all the NRIIT alumni and to create a single global NRIIT community. The Alumni Association NRIIT is an official unit of the Institute with the primary objective of facilitating the pleasant and friendly interface to all the NRIIT alumni/alumnae and creating a single semantic web of NRIIT fraternity. The Alumni Association NRIIT is a registered society with the

objective of enrolling all alumni/alumnae as members of the association and facilitating active participation of the alumni/alumnae in appropriate activities, events, and initiatives of the Institute.

5.4.2 – No. of registered Alumni:

1187

5.4.3 – Alumni contribution during the year (in Rupees) :

0

5.4.4 – Meetings/activities organized by Alumni Association :

Alumni Association had conducted 1. Workshop on industrial applications of NDT and career opportunities. 2. Workshop on industrial applications of ROBOTIC AUTOMATION and career opportunities 3. Guest Lecture on Awareness About Overseas Future Members of the association will meet once in a year

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

1. NRI Institute of Technology has created a welldefined transparent organizational structure with participative management through decentralization. The decentralized governance model is evident in every sphere as each department/faculty functions as a separate subunit, in deciding and implementing the studentcentric programmes and activities. The Governing Body delegates all the academic and operational decisions based on policy to the Academic Monitoring Committee headed by the Principal in order to fulfill the vision and mission of the institute. Academic Monitoring Committee formulates common working procedures and entrusts the implementation with the faculty members. The principal, academic director and staff members are involved in defining the policies and procedures, framing guidelines and rules regulations pertaining to admission, placement, discipline, grievance, counseling, training development, and library services etc., and effectively implementing the same to ensure smooth and systematic functioning of the institute. The Management is always open to discussion with the teaching and nonteaching staff which, in turn, encourages the involvement of the staff for the improvement of effectiveness and efficiency of the institutional process. There are regular meetings of office bearers and Management representatives. For the various programs to be conducted by the institute all the staff members will meet, discuss, share their opinion and plan for the event and form various committees involving students and coordinate with others. 2. Faculty members are given representation in various committees/cells and allowed to conduct various programs to showcase their abilities. All the staff members are involved in all the activities in the College. The senior staff members are appointed as convenors of various committees and are given full autonomy in decision making. Various cocurricular and extracurricular activities are conducted through the students with officebearers. In this way the College grooms leaders at higher levels, teaching staff, nonteaching staff and students. The College makes sure that every faculty is involved in at least 2 or 3 committees of the College and representation from the student community is also ensured. The matters at the department level are discussed by the HOD with the faculty team in consultation with the Principal. This gives the faculty an enormous sense of belonging and pride in the institution and this brings out the best in them. Institution conducted various workshops and events by involving student communities, staff and faculty actively.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Curriculum Development	<p>1. The Institute basing on the overall feedback of the students, faculty and industry assesses the existing curriculum and adds extra topics beyond the syllabus prescribed by the university. 2. A study is conducted to find the emerging technologies and societal needs and Industry persons also provide inputs related to their requirements during campus drives which helps in selecting elective courses that match the expected outcomes. 3. Practice sessions that relate to a topic are also identified and various workshops, seminars and guest lectures are conducted for better understanding of the contents by the students.</p>
Teaching and Learning	<p>1. The Institute continuously uses innovative methods of teaching, learning and evaluation process. Teaching and learning process adopts student centric approach to achieve the desired learning outcomes. 2. Self and active learning is inculcated among students through assignments and tutorials. 3. Interactive learning techniques such as seminars, video lectures, mini projects and major projects enrich the teaching and learning experience. 4. Apart from the JNTUK syllabus, special coaching is given o n communication skills, verbal, reasoning and aptitude techniques to prepare the students for competitive examinations and placements. 5. The faculty is encouraged to upgrade their knowledge by deputing them to participate in workshops, conferences, seminars, industrial training etc. 6. Lesson plans are prepared for uniform coverage of syllabus. 7. Appointment of Course Coordinators to ensure uniform course delivery. 8. Effective counselling mechanism is adopted for counselling the students.</p>
Examination and Evaluation	<p>1. The Institute has continuous evaluation system. Internal assessments are conducted as per the guidelines of the affiliating University. In</p>

addition, in the form of Tests, Assignments, Seminars, vivavoce and end semester final examination, continuous assessment of the student is done. 2. The internal marks and attendance details are communicated to their parents during the counselling sessions by the counsellors. 3. Question papers are set by experts by following Bloom's taxonomy. 4. Examination cell also communicates the marks and attendance reports to the parents through SMS and mobile app.

Research and Development

1. The institute has Doctorates and some of them are guiding Ph.D and M.Phil/M.Tech research students of various universities. 2. Grouping faculty into various "Research Groups" based on their research interests to facilitate concentrated effort towards exploring various research problems. 3. Making the students to take up concept based and innovative projects. 4. Enhanced the library with quite a number of eresources. Enabling the library to subscribe for number of standard National and International journals. 5. University had granted RD centers for CSE and ME departments. 6. Conducted Conferences and workshops in around the focused areas of research. 7. Deputed faculty to the conferences which are related to focused area of research. 8. Faculties have applied for sponsored projects in prominent areas identified by various funding agencies. 9. Enabling the faculty to give high quality projects to the students from the research areas. 10. Enabling the faculty to publish their research findings in high impact factor journals including SCOPUS indexed journals. 11. Enabling the faculty to registrar for Ph.D if they were not registered earlier.

Library, ICT and Physical Infrastructure / Instrumentation

1. NRIIT has made it a policy of not compromising in establishing infrastructure and other resources. 2. The library augmented with all the books required for delivering the courses and the time required for fetching a resource from the library has been minimized using EZ library software. 3. High speed Internet Bandwidth is made available to access the eresources with ease. 4. All the classrooms are ICT enabled. Faculty

uses an ICT facility matching to the topic of delivery. 5. Departments send the requirement to the central library for procurement well before the commencement of the semester. Central library ensures the availability of required books of the departments before the commencement of the semester by procuring them. 6. The campus is eco friendly and optimally utilizes solar power to generate energy and also has mineral water plant and rain water harvesting mechanism to optimise water resources.

Human Resource Management

1. Recruitment of qualified and experienced faculty is by properly constituted selection committees. 2. Faculty student ratio is maintained as per the applicable norms. 3. Faculty is deputed for conferences and workshops for upgradation of knowledge. 4. Welfare schemes for faculty and staff are implemented. 5. Free Transport facility is provided for both faculty and staff.

Industry Interaction / Collaboration

1. Industrial visits are organized for students. 2. Students are sent for internship's to various reputed industries. 3. Guest lectures are organized with Industrial experts. 4. The suggestions of Industrial experts are duly considered in the process of developing content by additional topics. 5. Certificate courses are conducted which are in accordance with the needs of the industry that enhance the related skills of the students. 6. Campus placements in various reputed companies are provided to all the eligible students. 7. Active M.O.U.s are entered with number of industries with Infosys, Oracle, APPSDC, etc., for industry - institute interaction for campus recruitment and student training.

Admission of Students

1. Admission process is totally under the control of APSCHE and according to the guidelines mentioned in various G.O's released by A.P. Govt. 2. Seats allocation will be made in two categories: Category - A seats constitute 70 of the total seats available in the college/branch which are filled by EAMCET Convener quota and Category - B seats (Management quota) constitute 30 of the total available seats. These seats are filled by the

Management as per the guidelines of APSCHE.

6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
<p>Planning and Development</p>	<p>1. Training Faculty for excellence 2. Special leaves for faculty for higher education 3. Organizing Faculty development programmes 4. Providing industrial training to faculty 5. Deputing faculty to refresher courses</p>
<p>Administration</p>	<p>1. Academic administration at NRIIT is completely automated using Inhouse developed academic ERP system for academic and administrative purposes. 2. Access to student and parent portals of NRIIT through the App for student performance attendance result in increased rapport with stakeholders. 3. Academic Administration system which encompasses admission, timetable, evaluation, grading, certificate generation, fee collection Elearning system, student management systems, Library Automation system, content Management system and Alumni Management system. 4. Student's data is also maintained in automated software.</p>
<p>Finance and Accounts</p>	<p>1. Department sends budget proposals for each academic year and the management allocates concerned budget. 2. Purchases can be done after duly approved at various levels. 3. Audits are done in every quarter.</p>
<p>Student Admission and Support</p>	<p>1. Admission process is totally under the control of APSCHE and according to the guidelines mentioned in various G.O's released by A.P. Govt. 2. Seats allocation will be made in two categories: Category - A seats constitute 70 of the total seats available in the college/branch which are filled by EAMCET Convener quota and Category - B seats (Management quota) constitute 30 of the total available seats. These seats are filled by the Management as per the guidelines of APSCHE. 3. Apart from the fee reimbursement and financial aid in the form of scholarships from the government, the students are supported by the institution by providing fee concession in transport, payment of hostel fees, college uniforms, sportswear and equipment's. 4. Allocation of one Faculty member for</p>

	every 15 to 20 students 5. Career guidance to the students through career guidance cell.
Examination	1. As per the scheduled dates of the Academic Calendar internal / end semester examinations are conducted in each semester. 2. Two internal assessment tests are conducted during the semester 3. Assignments are given to improve the analytical and problem solving skills of the students. 4. Online objective test and descriptive tests are conducted for each subject. 5. University conducts end semester examinations in both theory and practical's.

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2018	G Srinivasa Babu	Recent advances in communications and signal processing	NIT Warangal	4000
2018	P Rajesh	FDP on Effective methods of teaching with outcome	NITR	1000
2018	P L Amruthavalli	Recent advances in communications and signal processing	NIT Warangal	4000
2018	D Ravi shankar	FDP on Effective methods of teaching with outcome	NITR	1000
2018	CH Uday bhaskar	Recent advances in communications and signal processing	NIT Warangal	4000
2018	P Venugopal	Recent advances in communications and signal processing	NIT Warangal	4000

2019	K Prathyusha	NPTEL Online course	NPTEL	1000
2019	M Suneel	NPTEL Online course	NPTEL	1000
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6.3.2 – Number of professional development / administrative training programmes organized by the Colleges for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	NBA AWARENESS PROGRAM	Nil	19/01/2019	20/01/2019	80	0
2019	OUTCOME BASED EDUCATION	Nil	05/01/2019	06/01/2019	81	0
2019	TALE	Nil	25/02/2019	23/03/2019	80	0
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
IMPROVING TEACHING SKILLS IN THE SUBJECT POWER ELECTRONICS	1	25/05/2019	30/05/2019	6
RECENT TRENDS IN ELECTRICAL ENGINEERING	1	07/12/2018	07/12/2018	1
ADVANCED LAND SURVEYING USING TOTAL STATION	4	23/01/2019	30/01/2019	7
EMERGING AND LOW COST CONSTRUCTION TECHNIQUES	1	22/11/2018	24/11/2018	3
ANALYSIS AND DESIGN OF STRUCTURES USING ETABS SOFTWARE	3	08/02/2018	10/02/2018	3
PYTHON PROGRAMMING	2	04/09/2018	07/09/2018	4

PERSPECTIVES OF RESEARCH AND TECHNICAL PAPER WRITING	1	02/03/2019	02/03/2019	1
DATA SCIENCE AND ITS APPLICATIONS	1	28/09/2018	29/09/2018	2
RECENT ADVANCES IN COMMUNICATIONS AND SIGNAL PROCESSING	30	29/10/2018	04/11/2018	7
SWITCHING CIRCUITS AND LOGIC DESIGN	2	29/07/2018	18/10/2018	84
INTERNET OF THINGS	1	18/06/2018	22/06/2018	5
VLSI DESIGN AND CHALLENGES	2	17/11/2018	17/11/2018	1
IC AND SR	1	19/01/2019	19/01/2019	1
PROGRAMMING IN JAVA	1	21/01/2019	26/04/2019	84
DIGITIZATION vs DIGITAL BASED ANALYSIS	2	31/10/2018	31/10/2018	1
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
188	188	35	35

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
FREE TRANSPORT, STAR HEALTH CARD, FEE CONCESSION FOR FACULTY WARDS SALARY ADVANCES	FREE TRANSPORT, PF, STAR HEALTH CARD, FEE CONCESSION FOR FACULTY WARDS SALARY ADVANCES	MERIT FEE CONCESSION

6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

1. Institution conducts internal and external financial audits regularly. The institute has a mechanism for internal and external audit. We have our own internal audit mechanism where internal audit is an ongoing continuous process in addition to the external auditors to verify and certify the entire Income and Expenditure and the Capital Expenditure of the Institute each year. 2. Likewise an external audit is also carried out on an elaborate way on quarterly basis. The institutional accounts are audited regularly by both Internal and statutory audits.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Nil	0	Nil
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6.4.3 – Total corpus fund generated

298792000

6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	ISO 9001:2015	Yes	IQAC
Administrative	Yes	ISO 9001:2015	Yes	IQAC

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

<p>1. At the time of admission, handbook is printed every year with updated information and the book is given to the parents of newly admitted students on the first day of the college during interactive session by the principal and management. 2. After evaluating the student in each component, performance of the student is sent to the parent along with the details of attendance by the counselor. 3. Counselor earmarked to the student is in touch with the parent on continuous basis and inform the parent about the progress of ward. 4. Parents meet is conducted every year and suggestions, feedback of the parents are taken by the department on various aspects.</p>

6.5.3 – Development programmes for support staff (at least three)

<p>1. Training programme on English Communication Skills for Supporting Staff. 2. Lab Technicians were trained by the respective faculty incharges of the labs in each Department. 3. Lab Technicians are also permitted to attend for training sessions.</p>

6.5.4 – Post Accreditation initiative(s) (mention at least three)

<p>1. NRIIT directs the faculty of all the departments to submit Academic Performance Index (API) and Annual Quality Assurance Reports (AQAR) which are reviewed to ensure quality and accountability. 2. NRIIT entered into collaborative arrangements for the purpose of teaching, research and extension education with other reputed institutions/ organisations wherever needed. 3. Each department performs periodic review of curricula within their disciplines or related disciplines. Curricula in each discipline have been made flexible enough to allow for the incorporation of new technologies and modes of delivery while maintaining a constant focus on quality. 4. Faculties are encouraged to take up add on courses/vocational courses for the quality enhancement provided by the NPTEL.</p>

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	Yes
d) NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	NPTEL ONLINE COURSES FACULTY	27/04/2019	27/04/2019	27/04/2019	229
2019	NPTEL ONLINE COURSES STUDENTS	28/04/2019	28/04/2019	28/04/2019	150
2019	I.S.O Certification	25/03/2019	25/03/2019	25/03/2019	188
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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
AWARENESS PROGRAM TO YOUNGER GENERATION ON LEGAL AND SOCIAL ISSUES	06/03/2019	06/03/2019	152	167

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
<p>1. NRIIT is located in serene environment with plenty of mango trees and blooming greenery since its inception. 2. The institute is conscious towards conservation, safety and sustainability of the environment. 3. The maintenance department of the college organizes green audits on a periodic basis which has made the campus ecofriendly. 4. The lawns and gardens consist of good number of rain water harvesting structures. 5. Our NSS volunteers and gardeners take care of the garden and green campus. 6. The campus is a nonpolluting smoke free zone. 7. Buildings are designed in such a way that there is natural illumination and ventilation in the buildings and across the campus. 8. NRIIT established roof top solar panels on the buildings using grid technology. 9. The 200KWP grid connected solar PV panels are functioning in the campus. More than 44 of electricity demands of the institutions are met by this renewable energy source. 10. Solar street lights have been installed in the campus. 11. Rain water from the top of the buildings is collected and is either stored or allowed to sink into the land.</p>

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	1
Provision for lift	No	0
Ramp/Rails	Yes	1
Braille Software/facilities	No	0

Rest Rooms	Yes	1
Scribes for examination	No	0
Special skill development for differently abled students	Yes	1
Any other similar facility	Yes	1

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
No Data Entered/Not Applicable !!!							

7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
No Data Entered/Not Applicable !!!		

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Swachh Bharat	17/01/2019	19/01/2019	30
Plastic Awareness Camp	23/02/2019	23/02/2019	9

7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

Energy conservation: Institute has following practices to conserve energy by electronic equipments means 1. By Seeking out computing related equipment and services have the lowest footprint possible. 2. Ensuring that all computers have activated power management software to minimize energy consumption and put the computer in sleepy mode when not in use. Always turn off monitors. 3. Adopt guidelines for extending the life of computers and components (i.e. follow manufacturers guidelines) and maximize (i.e. reuse, repair, recycle). 4. Minimising the paper work and wastages go through ecofriendly recycle process. • 5. Use electronic method for the information / circulation/ notices etc. (thus minimizing paper use) 6. Institute employees go for policy of reuse, repair, recycle wherever possible in there working. 7. Constructions are well ventilated and lighted and needs no artificial lighting. Still the institution has installed CFLs and LED'S, this has helped a lot in conservation of electricity. Use of renewable energy: 1. The campus has a solar lighting system in the campus. Water harvesting: The Institute is designed on Themed landscaping projects. Many constructional aspects are meant to conserve water, harvest rain water to best of its potential. A water recharge pit has been constructed in the campus. RainWater harvesting project is now functional in the campus. There is 100 water recycling in the campus. This has also helped in converting the campus into a green campus, which is based on recycled water. **Efforts for Carbon neutrality:** The following steps have been taken 1. Thousands of plants of various species and varieties have been planted in the campus during the last five years. 2. Survival rate of the plants in the University campus is more than 90. 3. The campus has been declared as a "No Smoking Zone".

4. Burning of litter and other waste material has been banned 5. Electronic methods are used to link / convey / transfer the information Plantation: The Institute has massive plants and trees on the campus and is a green campus in reality. Sufficient money is spent to keep the environment green. Following practices are followed A. Efforts to reuse the eWaste like computers to teach the basics of the computer parts. B. Efforts to repair the computers and to be used for students and library. C. wherever possible recycling is done.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1. 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 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 facilitated Training placements classes in the regular time table to have consistent and rigorous knowledge to the students. 2. Institute Student Mentoring System/ software based system for open communication and information transfer to student regarding curriculum, academic schedules, class planning and attendance 3. EGovernance: The University has embarked upon computerization of its functions comprising admissions, all examination related tasks, administrative working in different branches. The admissions, examinations, financial, and administrative modules have already been implemented 4. Online placement tests are periodically conducted to enhance aptitude, mental ability and reasoning of the students to improve their employability. 5. The Institute has a very robust campuswide network wrapped around the stateoftheart WiFi technologies in all the departments and offices for Internet surfing through BSNL. All the departments and hostels housing research scholars are connected to the campus network with WiFi. 6. Enter into collaborations with various reputed institutions for the technical enhancement and to learn updated topics.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

<http://www.nrigroupofcolleges.com/nriit/pdf/igac/nri-best-practices.html>

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

1. NRIIT strives to impart quality education through exploration and experimentation and produce socially conscious engineers, embedding ethics and values for the advancement in science and technology. 2. Institute is regularly organising various development programs for the benefit of teachers and students through seminars, workshops and symposiums. 3. The institute is dedicated to provide ample opportunity to students to learn the theoretical concepts practically. The institute follows the under given process: 1. Teaching Learning Process: The institution has an effective conjunction among teaching, research and extension. Academic as well industrial collaboration with reputed organizations across the globe is at priority for the institute which assist the institute's strength to fulfill the vision of establishing itself as excellence by imparting futuristic technologies that develops and applies knowledge to all the students by experiential learning. 2. Extension Activities Awareness program me such as talks, seminars and workshops related to the patriotism, Engineers Day, Swatch Bharat etc. under extension Activities and Outreach Programmes are focused on the integral formation of the student. Training and Workshops on Transferable Skills help the students to serve the society better. Strive for truth and Service We provide quality education to

our students. Integrity and transparency are reflected in all the endeavours of the institution from the Admission process up to the conformant of Degree/Placement and even beyond. The institution stands for humanity, for tolerance, for reason, for the adventure of ideas and for the search for truth. For this we create an environment that fosters teamwork, cooperation and mutual support. The Institution believes in the policy of inclusion and promotes the Nation building qualities of equality, justice and fraternity. 4. Study hours for Hostel Students.

Provide the weblink of the institution

<http://www.nrigroupofcolleges.com/nriit/pdf/igac/nri-distinctiveness.html>

8.Future Plans of Actions for Next Academic Year

1. Initiate the process to enter MoU's with international universities for the exchange of students and faculty 2. To conduct more programs for enhancing the entrepreneurship skills for the students 3. To improve contacts with industries for the students to undertake field projects and internships 4. Planning to organize programs on contemporary themes to address the gap between industry and academia.