



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

NEWS LETTER

Academic Year : 2024-25

Volume No : 27



Best Industry Connect Autonomous Institute

NRI Institute of Technology



Accredited by NAAC with "A" Grade & NBA

Pothavarappadu, Agiripalli, Vijayawada, Andhra Pradesh 521212



NRI INSTITUTE OF TECHNOLOGY

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(Accredited by NBA for UG – EEE, ECE & CSE)

(Accredited by NAAC with 'A' Grade, ISO 9001 : 2008 Certified)

POTHAVARAPPADU-521 212 VIJAYAWADA, Krishna Dist.

Phone: 0866-2469666 Website : www.nriit.edu.in E-mail: principal@nriit.edu.in



PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

- To provide students, a strong foundation in core areas along with engineering mathematics, sciences and make them globally competent in designing, modeling and critical problem solving. (**Quality Education**)
- To promote research activities in the field of electrical and electronics engineering through lifelong learning and provide solutions to engineering problems for sustainable development of society. (**Research**)
- To bring in holistic growth of the graduates by inculcating good communication skills and socio-ethical values. (**Professional Career & Social Responsibility**)
- To strive for getting employment or higher education by excelling in competitive examinations and be able to work in supportive and leadership roles. (**Higher Education**)

PROGRAMME SPECIFIC OUTCOMES (PSOs)

- Apply fundamental knowledge to identify, formulate, design and investigate various problems of electrical and electronic circuits, electrical machines, power electronics and power systems.
- Solve ethically and professionally various electrical engineering problems in societal & environmental context and communicate effectively.



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PROGRAM OUTCOMES (POs)

- 1. Engineering knowledge:** Apply the knowledge of mathematics, science, electrical engineering fundamentals and specialization to the solution of complex electrical engineering problems.
- 2. Problem analysis:** Identify, formulate, review research literature, and analyze complex electrical engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- 3. Design/development of solutions:** Design solutions for complex electrical engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- 4. Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- 5. Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling of complex engineering activities with an understanding of the limitations.
- 6. The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- 7. Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of and need for sustainable development.
- 8. Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- 9. Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- 10. Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- 11. Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- 12. Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.



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VISION & MISSION OF THE DEPARTMENT

VISION OF THE DEPARTMENT

To achieve academic excellence and produce globally competent Electrical & Electronics Engineers by imparting knowledge through quality education and meeting ever changing industrial demands and societal needs.

MISSION OF THE DEPARTMENT

- MD1: To provide quality education through state of art laboratories and instruction by highly qualified and experienced faculty in Electrical & Electronics Engineering.*
- MD2: To establish a continuous industry institute interaction, participation, collaboration to contribute skilled Electrical Engineers.*
- MD3: To promote innovative technologies and Research & development (R&D) in Emerging areas of Electrical Engineering.*
- MD4: To build human & social values, entrepreneurship skills and professional ethics among the Electrical Engineers.*



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PUBLICATION OF NEWSLETTERS/MAGAZINES EDITORIAL BOARD MEMBERS

S.NO	NAME	DESIGNATION
1	Dr. R. VENKAT RAO	Chairman & Chief Patron
2	Dr. C. NAGA BHASKAR	Principal, Patron
3	Dr. N. SAMBA SIVA RAO	Professor & HOD EEE,
4	I.PRASANNA KUMAR	Assistant Professor EEE
5	R. RAGHUNADHA SASTRY	Associate Professor EEE, Member
6	K. VENKATA KISHORE	Associate Professor EEE, Member
7	B. EEDUKONDALU	Assistant Professor EEE, Member
8	S. RAMYAKA	Assistant Professor EEE, Member

STUDENT MEMBERS:

S.NO	Roll number	Name of the Student	CLASS
1	21KN1A0201	A. RENU SRI	IV EEE
2	21KN1A0252	S. SETHU PAVAN	IV EEE
3	20KN1A0231	M.BALA VENKATA SAI	III EEE



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AVAILABLE FACULTY LIST -2024-25

S.No	Name of the Faculty Member	Qualification			Association with the Institution	Designation
		Degree (highest degree)	University	Year of attaining higher qualification		
1	Dr. N. Samba Siva Rao	Ph.D	JNTUH	30-10-2015	Y	Professor and HOD
2	Dr. Chandra Sekhar	Ph.D	KLU	17-03-2022	Y	Professor
3	Dr.N.V. Prasad K	Ph.D	HEFEI	24-07-2020	Y	Associate Professor
4	Dr.V. Kiran Babu	Ph.D	KLU	26-07-2022	Y	Associate Professor
5	Mr. R. Raghunadha Sastry	M.Tech	ANU	30-07-2010	Y	Associate Professor
6	Mr. K. Venkata Kishore	M.Tech	JNTUH	30-12-2011	Y	Associate Professor
7	Mrs. S. Bhavani	M.Tech	ANU	30-07-2010	Y	Associate Professor
8	Mr. I. Prasanna Kumar	M.Tech	GITA M	29-07-2011	Y	Assistant Professor
9	Mrs. V. Lalitha	M.Tech	JNTUK	31-03-2014	Y	Assistant Professor
10	Mr. K. Sravan Sai Kumar	M.Tech	ANU	30-10-2012	Y	Assistant Professor
11	Mr. B. Eedukondalu	M.Tech	JNTUK	30-09-2016	Y	Assistant Professor
12	Mrs. S.Ramyaka	M.Tech	JNTUK	30-01-2016	Y	Assistant Professor
13	Mr. Y. Nireekshana Rao	M.Tech	JNTUK	29-11-2019	Y	Assistant Professor
14	Mr. K. Moni	M.Tech	JNTUK	30-11-2020	Y	Assistant Professor
15	Mr. G. Devanand	M.Tech	JNTUK	30-01-2014	Y	Assistant Professor



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16	Mrs. Ch. Sirisha	M.Tech	JNTUK	30-09-2016	Y	Assistant Professor
17	Mrs.P. Bhagya Maduri	M.Tech	JNTUK	30-10-2017	Y	Assistant Professor
18	Mrs.B. Saidamma	M.Tech	JNTUK	30-12-2013	Y	Assistant Professor

PUBLICATIONS – PAPERS, BOOKS (STAFF/FACULTY)

Sl. No.	Faculty / Staff name	Paper / book title	Events / Journals / Publisher
1	Dr. N. Sambasiva Rao	Intelligent Water Pump Controller with Water Level Display	International Journal of All Research Education and Scientific Methods (IJARESM), ISSN: 2455-6211, Volume 12, Issue 10, October-2024
2	Dr. N. Sambasiva Rao	Accident Prevention System	IJIRT Volume 6 Issue 12 ISSN: 2349-6002, October 2024
3	Dr. N. Sambasiva Rao	Smart Machine Control	International Journal of All Research Education and Scientific Methods (IJARESM), ISSN: 2455-6211, Volume 12, Issue 10, October-2024
4	Dr. N. Sambasiva Rao	Smart Railway System to Prevent Collisions	IJIRT Volume 11 Issue 6, Pg.88-93 ISSN: 2349-6002, October 2024
5	Dr. N. Sambasiva Rao	Radio Frequency Based Home Automation System	International Journal of All Research Education and Scientific Methods (IJARESM), Volume 12, Issue 10, October 2024
6	Dr. N. Sambasiva Rao	Wireless Charging for Pacemaker Battery	IJIRT Volume 11 Issue 5 ISSN: 2349-6002, October 2024
7	Dr. N. Sambasiva Rao	Hybrid Power Generation	IJARESM, Volume 12, Issue 10, October 2024
8	Dr. N. Sambasiva Rao	Automatic Engine Locking System and GPS Tracking For Drunken Drive Using Arduino	IJIRT Volume 11 Issue 5 ISSN: 2349-6002, October 2024
9	Dr. N. Sambasiva Rao	Farmer's Safety (For Future Generation)	IJARESM, Volume 12, Issue 10, October 2024
10	Dr. N. Sambasiva Rao	She Sakhi	IJIRT Volume 11 Issue 5 ISSN: 2349-6002, Pg. No.2351-2354, October 2024
11	Dr. N. Sambasiva Rao	IoT Based Railway Track Crack Alert System	IJARESM, Volume 12, Issue 11, November 2024
12	Dr. N. Sambasiva Rao	Solar Piezo Hybrid Electric Charging System	IJIRT Volume 11 Issue 5 ISSN: 2349-6002, Pg. No.2108-2111, October 2024
13	Dr. N. Sambasiva Rao	IoT Based Surge Defender	IJARESM, Volume 12, Issue 10, October 2024
14	Dr. N. Sambasiva Rao	Smart Hydro System	IJSRED, Volume 8 Issue 2, Mar-Apr 2025



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15	Dr. N. Sambasiva Rao	Farmer's Safety from Reptiles	IJSRED, Vol 8, Issue 2, Mar-Apr 2025
16	Dr. N. Sambasiva Rao	Reptile Risk Management for Farmers	IJSRED, Vol 8, Issue 2, 2025
17	Dr.S. Chandra Sekhar	Hybrid Electric Charging System	IJPREAMS, Vol.05, Issue 03, March 2025, pp:1368-1371
18	Dr.S. Chandra Sekhar	Smart Railway Traction System	IJPREAMS, Vol.05, Issue 03, March 2025, pp:1632-1635
19	Dr.S. Chandra Sekhar	Wavelet-ANN Based Detection of Fault Location of Hybrid Renewable Energy Sources Connected Power Transmission System	INTERNATIONAL JOURNAL of RENEWABLE ENERGY RESEARCH S. Chandra Shekar et al., Vol.14, No.3, September, 2024 (SCOPOUS)
20	Dr.N.V. Prasad.K	Solar Powered Grass Cutting Robot	IJSRED, Vol 8, Issue 2, Mar-Apr 2025
21	Dr.V. Kiran Babu	Smart Wheel chair using Voice Gesture and Eye Movement Recognition	IJPREAMS, Vol.05, Issue 03, March 2025, pp:1668-1670
22	Dr.V. Kiran Babu	Smart Wheel chair using Voice Gesture and Eye Movement Recognition	IJARIE-ISSN(O)-2395-4396, Vol-11 Issue-I 2025
23	Mr. R. Raghunadha Sastry	Accident Prevention System	IJIRT Volume 6 Issue 12 ISSN: 2349-6002, October 2024
24	Mr. R. Raghunadha Sastry	Automatic Load Sharing and Protection of Transformers using Microcontroller	IJPREAMS, Vol.05, Issue 03, March 2025, pp:1647-1649
25	Mr. R. Raghunadha Sastry	Reptile Risk Management for Farmers	IJSRED, Vol 8, Issue 2, 2025
26	Mr. R. Raghunadha Sastry	Robo The Saviour	IJPREAMS, Vol.05, Issue 03, March 2025, pp:1737-1739
27	Mr. R. Raghunadha Sastry	She Sakhi	IJIRT Volume 11 Issue 5 ISSN: 2349-6002, Pg. No.2351-2354, October 2024
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30	Mr. K. Venkata Kishore	IoT Based Railway Track Crack Alert System	IJARESM, Volume 12, Issue 11, November 2024
31	Mr. K. Venkata Kishore	Trash Tracker: A Waste Management System	IJARIE-ISSN(O)-2395-4396, Vol 11, Issue-1, 2025
32	Mr. K. Venkata Kishore	Vehicle to Vehicle Communication for Safety Alert	IJARIE-ISSN(O)-2395-4396, Vol-11 Issue-I 2025
33	Mr. K. Venkata Kishore	Power Quality Enhancement in Electric Vehicle Integrated Distribution Systems using a Solar Powered Dynamic Voltage Restorer	2025 International Conference on Sustainable Energy Technologies and Computational Intelligence (SETCOM) 979-8-3315-2054-0/25/\$31.00 ©2025 IEEE DOI: 10.1109/SETCOM64758.2025.10932644



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34	Mrs. S. Bhavani	Multi Solar Energy Harvester	IJSRED, Volume 8 Issue 2, Mar-Apr 2025
35	Mrs. S. Bhavani	Radio Frequency Based Home Automation System	International Journal of All Research Education and Scientific Methods (IJARESM), Volume 12, Issue 10, October 2024
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42	Mr. B. Eedukondalu	Solar Piezo Hybrid Electric Charging System	IJIRT Volume 11 Issue 5 ISSN: 2349-6002, Pg. No.2108-2111, October 2024
43	Mrs. S. Ramyaka	Hybrid Power Generation	IJARESM, Volume 12, Issue 10, October 2024
44	Mrs. S. Ramyaka	Solar-Wind Hybrid Power Generation on Highway Dividers	IJARIE-ISSN(O)-2395-4396, Vol-11 Issue-I 2025
45	Mr. Y. Nireekshana Rao	Multi Solar Energy Harvester	IJSRED, Volume 8 Issue 2, Mar-Apr 2025
46	Mr. Moni	Solar-Wind Hybrid Power Generation on Highway Dividers	IJARIE-ISSN(O)-2395-4396, Vol-11 Issue-I 2025
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STUDENT ACHIEVEMENTS (PRIZES/PARTICIPATION IN INTER INSTITUTE EVENTS) -(2024-25)

S.N O	YEAR	NAME OF THE STUDENT	NAME OF THE EVENT	PLACE/COLLEGE	AWARD/ PARTICIPATION
1	2024-25	B. KARTHIKEYA	PROJECT EXPO	ANDHRA LOYOLA INSTITUTE OF ENGINEERING & TECHNOLOGY, VIJAYAWADA	II PRIZE
2		S. MANASA	PAPER PRESENTATION	ANDHRA LOYOLA INSTITUTE OF ENGINEERING & TECHNOLOGY, VIJAYAWADA	II PRIZE
3		T. MANIVARMA	PROJECT EXPO	ANDHRA LOYOLA INSTITUTE OF ENGINEERING & TECHNOLOGY, VIJAYAWADA	II PRIZE
4		G. LAKSHMAN KUMAR	PAPER PRESENTATION	ANDHRA LOYOLA INSTITUTE OF ENGINEERING & TECHNOLOGY, VIJAYAWADA	II PRIZE
5		D. SUMASRI	PAPER PRESENTATION	DVR & Dr. HS MIC College of technology	II PRIZE
6		MORLA NIRMALA JYOTHI	PAPER PRESENTATION	DVR & Dr. HS MIC College of technology	II PRIZE
7		AREGE SRIKALA	PAPER PRESENTATION	DVR & Dr. HS MIC College of technology	II PRIZE
8		KOTTE SOWMYA DEEPTHI	PAPER PRESENTATION	DVR & Dr. HS MIC College of technology	II PRIZE
9		J. VENKATA SAI SASIDHAR	PAPER PRESENTATION	LAKKI REDDY BALI REDDY COLLEGE OF ENGINEERING, MYLAVARAM	PARTICIPATION
10		P. TEJASWINI	TECHNICAL POSTER PRESENTATION	LAKKI REDDY BALI REDDY COLLEGE OF ENGINEERING, MYLAVARAM	PARTICIPATION
11		B. THANU SRI	PROJECT EXPO	LAKKI REDDY BALI REDDY COLLEGE OF ENGINEERING, MYLAVARAM	PARTICIPATION
12		CH. HEMANTH KUMAR	TECHNICAL QUIZ	LAKKI REDDY BALI REDDY COLLEGE OF ENGINEERING, MYLAVARAM	PARTICIPATION
13		M.NAGA BABU	TECHNICAL QUIZ	LAKKI REDDY BALI REDDY COLLEGE OF ENGINEERING, MYLAVARAM	PARTICIPATION
14		A. RENU SRI	TECHNICAL QUIZ	LAKKI REDDY BALI REDDY COLLEGE OF ENGINEERING, MYLAVARAM	PARTICIPATION
15		B. KALYANI	TECHNICAL QUIZ	LAKKI REDDY BALI REDDY COLLEGE OF ENGINEERING, MYLAVARAM	PARTICIPATION
16		K. ASHA DEEPTHI	TECHNICAL POSTER PRESENTATION	LAKKI REDDY BALI REDDY COLLEGE OF ENGINEERING, MYLAVARAM	PARTICIPATION



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17	P. SOBHANA DEEPTHI	TECHNICAL POSTER PRESENTATION	LAKKI REDDY BALI REDDY COLLEGE OF ENGINEERING, MYLAVARAM	PARTICIPATION
18	B. VISHNU VARDHAN	PROJECT EXPO	ANDHRA LOYOLA INSTITUTE OF ENGINEERING & TECHNOLOGY, VIJAYAWADA	PARTICIPATION
19	CH. HEMANTH KUMAR	PROJECT EXPO	ANDHRA LOYOLA INSTITUTE OF ENGINEERING & TECHNOLOGY, VIJAYAWADA	PARTICIPATION
20	P. SOBHANA DEEPTHI	TECHNICAL POSTER PRESENTATION	ANDHRA LOYOLA INSTITUTE OF ENGINEERING & TECHNOLOGY, VIJAYAWADA	PARTICIPATION
21	P. LAKSHMI PARVATHI	TECHNICAL POSTER PRESENTATION	ANDHRA LOYOLA INSTITUTE OF ENGINEERING & TECHNOLOGY, VIJAYAWADA	PARTICIPATION
22	R. SAI DIVYA	TECHNICAL POSTER PRESENTATION	USHARAMA COLLEGE OF ENGINEERING & TECHNOLOGY, TELAPROLU	PARTICIPATION
23	B. KARTHIKEYA	TECHNICAL POSTER PRESENTATION	USHARAMA COLLEGE OF ENGINEERING & TECHNOLOGY, TELAPROLU	PARTICIPATION
24	MADDELA PUJITHA	PAPER PRESENTATION	USHARAMA COLLEGE OF ENGINEERING & TECHNOLOGY, TELAPROLU	PARTICIPATION
25	PERNNI SAI VENKAT	PAPER PRESENTATION	USHARAMA COLLEGE OF ENGINEERING & TECHNOLOGY, TELAPROLU	PARTICIPATION



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ENGINEERING EVENTS CONDUCTED WITHIN THE DEPARTMENT:

S.NO	YEAR	NAME OF THE EVENT
1	2024-25	SUNRISE 2K25
2		NATIONAL ENERGY CONSERVATION DAY
3		A ONE-WEEK WORK SHOP ON GENERATIVE AI
4		A TWO-WEEK ATAL FACULTY DEVELOPMENT PROGRAM ON AI BASED ENERGY STORAGE SYSTEMS INTEGRATED WITH SUSTAINABLE AND RENEWABLE ENERGY RESOURCES FOR ELECTRIC VEHICLES (EV)
5		A ONE DAY SEMINAR ON AWARENESS ON GATE EXAM & OPPORTUNITIES
6		INDUSTRIAL VISITS
7		A ONE DAY SEMINAR ON "HOW TO PLAN FOR STARTUP LEGAL AND ETHICAL STEPS"

PHOTOS IN THE ABOVE EVENTS

Industrial visit PHOTOS



INDUSTRIAL VISIT TO SYTIQHUB EV SOLUTIONS



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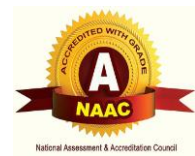
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INDUSTRIAL VISIT TO BHARATHI SOLAR PLANT



INDUSTRIAL VISIT TO AVERA ELECTRIC VEHICLE COMPANY



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NATIONAL ENERGY CONSERVATION DAY



SEMINAR ON AWARENESS ON GATE EXAM & OPPORTUNITIES





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A TWO-WEEK AICTE ATAL FDP PROGRAM





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A SEMINAR ON

“How to plan for startup legal and Ethical steps”

10TH APRIL 2025

By

Dr. CHINNI KRISHNA

Professor

Department of MBA

Organized by

Department of Electrical and Electronics Engineering



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