

TECHNOLOID

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A PUBLICATION OF EEE DEPARTMENT



**KALLAM HARANADHAREDDY INSTITUTE OF
TECHNOLOGY**

Affiliated To JNTUK, Approved by AICTE, New Delhi
NH-5, Chowdavaram, Guntur-522019, AP., India

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

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- **About College:**

Founder promoter members of the Society, who are Primarily Businessmen, Believe that the future of India can be built and moulded in class rooms; the total education can play a very important role for peaceful and co-operative existence of all human beings. The National and International understanding can be Built-up only through the Tool of Education, thereby after careful and meaningful discussions among ourselves, We desired to establish a society by the name " **KALLAM ACADEMY OF EDUCATIONAL SOCIETY** ". The Society is registered as vide **Reg. No. 24 of 2006 dated 17-01-2006** under the **Andhra Pradesh Societies Registration Act, 35 of 2001**.

Science and Technology have emerged major factors in the sustenance of the society. They are changing the world with a matchless speed and magnitude. In this scenario, to create competent technocrats, an ideal institution with good ambience, infrastructure and eminent faculty is required.



Message from Founder Chairman:



Sri Kallam Haranadha Reddy, Chairman, KHIT The pride of every student and staff would be in his/her college. A college may reach heights of glory but without materials like the college magazine, the outside world may not know of it.

The role of a college magazine is there-fore vital in promoting what an institution offers. It brings out into the open things hitherto unrevealed. It brings to light the names of the unsung heroes and their mighty deeds.

I am happy that there is a dedicated team of staff and students who have brought out the magazine of our college. They have presented the stupendous achievements of KHITians in the fields of academics, research, sports and extra-curricular activities, in a wonderful way.

I wish the magazine a grand success.

BEST WISHES!!!!

DEPARTMENT VISION

To impart quality technical education to the graduates inculcating the professional skills and knowledge in the field of Electrical and Electronics Engineering with ethical values to serve the needs of the society with global standards.

DEPARTMENT MISSION

M1: To provide quality education through qualified faculty and state-of-the-art laboratories ensuring excellence in Electrical and Electronics Engineering.

M2: To equip students with technical expertise and entrepreneurial skills through a structured curriculum and fostering lifelong learning.

M3: To inspire students to succeed in professional practice and to pursue higher education in Electrical and Electronics Engineering.

M4: To encourage self-discipline and accountability in students, shaping them into responsible citizens to meet the desirable needs of society.

M5: To cultivate a culture of research, innovation and entrepreneurship in the core and allied fields of Electrical and Electronics Engineering.

Program Educational Objectives (PEOs)

The Program Educational Objectives of the B. Tech in Electrical and Electronics Engineering program are given below and are numbered from PEO1 to PEO3:

PEO 1	Exhibit a strong foundation in Electrical and Electronics Engineering with advanced knowledge in current technologies to address the real-world problems
PEO 2	Apply knowledge of Electrical and Electronics Engineering to contribute design, development and testing of systems that address societal and industrial needs.
PEO 3	Communicate effectively, demonstrate professionalism, collaboration, ethical attitude, team spirit and pursue lifelong learning to achieve career, organizational and societal goals.

Program Specific Outcomes (PSOs)

PSO1 Apply the knowledge of electrical engineering, investigate and solve the complex electrical Engineering problems to meet the specified needs with appropriate considerations for the society.

PSO2 Analyze, design and integrate electrical systems and apply modern tools and techniques to the complex engineering problems and create passion for life-long learning.

PSO3 Acquire skills through hands-on experience and work effectively alone or with a team, demonstrating expertise and entrepreneurial mindset.

About the HOD:



Dr. K. Hari Krishna

Education

- Bachelors of Technology from Jawaharlal Nehru Technological University Kakinada - JNTUK, Andhra Pradesh, India
- Masters from Acharya Nagarjuna University, Andhra Pradesh, India.
- Ph.D from Acharya Nagarjuna University, Andhra Pradesh, India.

Experience

- Professor, Department of Electrical & Electronics Engineering, Kallam Haranaghareddy Institute of Technology, Guntur, 05/06/2014 to till date
- Associate Professor, Department of Electrical & Electronics Engineering, S.S.N. College of Engineering and Technology, Ongole, A.P., India, 08/05/2006 to 02/06/2014.

- Assistant Professor, Department of Electrical & Electronics Engineering, Malineni Lakshmaiah Engineering College, Singarayakonda, A.P., India, 24/09/2003 to 09/07/2004.

Work Experience:

- Total Service: 20 Years

Title of the Research work: Optimal Load Frequency Control for Deregulated Power Systems.

Research Interests:

Power system operation and control, Optimal techniques in power flow analysis and power system Management.

Membership in Professional Bodies:

- Life member of Indian Society for Technical Education (ISTE)

Research Projects:

- Successfully coordinated ATAL Online Faculty Development Programme on "Energy Storage" from 07-09-2020 to 11-09-2020.

Research Scholar Guided / Guiding:

- ❖ **One** research scholar completed Ph.D from Annamalai University in 2022.
- ❖ Guiding **One** Ph.D students registered at Annamalai University from 2019.

Electrical and Electronics Engineering

BOS

S. No	BOS Hierarchy	Name, Designation of the Member & Affiliation	Email	Mobile
1	Chairman	Dr. K. Hari Krishna Professor & HOD / EEE, KHIT.	harikrishnaketha81@gmail.com	9849048409
2	University Nominee	Dr. Y.S. Kishore Babu Professor of EEE & HOD, UCEN, JNTUK, Narasaraopet.	yskbabu@gmail.com	9440518404
3	Subject Expert (Academic)	Dr. I. Satish Kumar,	drinjetisatishkumar@nitw.ac.in	9581371537

S. No	BOS Hierarchy	Name, Designation of the Member & Affiliation	Email	Mobile
		Assistant Professor, EEE Department, NIT Warangal, Telangana.		
4	Subject Expert (Academic)	Dr. G. Srinivasa Rao Professor, EEE Department, Vignan's Foundation for science, Technology & Research (Deemed to be University), Vadlamudi, Guntur.	hodeee@vignan.ac.in	8247759924
5	Subject Expert (Industry)	Mr. V. Srinivasa Rao ADE, CAM, RTPP, Kadapa.	srinivasarao.vasadi@gmail.com	9493121213
6	Alumni/Co-opted member	Mr. J. Sunil Babu Assistant Professor, EEE, KHIT.	sunnyjoybennymarry@gmail.com	9505551561
7	Senior Faculty	Dr. L. Shanmukha Rao Professor, EEE, KHIT.	lsrlinginini@yahoo.co.in	9440372593
8	Coordinator / Internal Faculty	Dr. G. Kishor Babu Professor, EEE, KHIT.	kish.eee01@gmail.com	9849933405

ABOUT THE DEPARTMENT

Department of Electrical and Electronics Engineering

The Department of Electrical and Electronics Engineering was Established in the academic year 2010-11 with an intake of 60, as one of the core Engineering program of Kallam Haranadhreddy institute of Technology, affiliated with Jawaharlal Nehru Technological University, Kakinada (JNTUK). The department is accredited by NBA, reflecting its commitment to quality education and continuous improvement. The department of EEE is supported by a team of highly qualified, experienced and dedicated faculty members, many of whom hold doctoral degrees and few are Perusing their Ph.Ds.

The curriculum is designed to cover core subjects like Electrical Machines, Power Systems, Control Systems, Power Electronics, and Renewable Energy.

The department offers students a practical learning environment through well-equipped, modern laboratories and advanced simulation tools. These facilities help students apply theoretical knowledge to real-world problems and develop research skills.

To enhance industry readiness, the department regularly organizes workshops, seminars, internships, and industrial visits. These activities expose students to current industry practices and technologies. In addition, the department has established strong ties with industries through MoUs and collaborative programs, creating valuable opportunities for students in learning, training, and career development.

The department ensures strong placement support, with students placed in reputed core and IT companies, while also motivating them for higher studies and entrepreneurship. In addition to technical growth. Students are encouraged to participate in research projects, paper publications, innovation challenges, hackathons, and professional society activities (ISTE), which enhance their problem-solving, leadership, and teamwork skills.

Teaching faculty

No	Staff Name	Designation	Qualification	Date of Joining	Experience	Area of Specialization
01	Dr. K. Hari Krishna	Professor & HOD	Ph. D	05.06.2014	21	Power Systems
02	Dr. L. Shanmukha Rao	Professor	Ph. D	01.06.2016	22	Power Systems
03	Dr. G. Kishor Babu	Professor	Ph. D	08.08.2022	16	Control Systems
04	Dr. P.P. Sharma	Professor	Ph. D	03.06.2013	17	Power Systems & Automation
05	Mr. M.V.N. Murthy	Assistant Professor	M.Tech (Ph. D)	06.06.2011	15	Power Systems
06	Mr.V. Rajesh	Assistant Professor	M.Tech	07.02.2022	16	Power & Industrial Drives
07	Mr.P. Venu Babu	Assistant Professor	M.Tech (Ph.D)	14.03.2022	16	Control Systems
08	Mr.M. Ranjith Kumar	Assistant Professor	M.E (Ph. D)	01.08.2022	15	Power Systems & Automation
09	Mrs. P. Kavitha	Assistant Professor	M.Tech	23.08.2022	15	Power & Industrial Drives
10	Mr. D. Sambasivarao	Assistant Professor	M.Tech	21.10.2021	8	Power Systems& High Voltage Engineering
11	Mr. J. Sunil Babu	Assistant Professor	M.Tech	19.06.2023	17	Power Systems& Engineering
12	Mrs. P. Nagadivya	Assistant Professor	M.Tech	18.04.2022	10	Power Electronics
13	Mrs. B. Lavanya	Assistant Professor	M.Tech	15.06.2024	3	Power Electronics &Electrical Drives
14	Mr. D. Joseph Abhishek	Assistant Professor	M.Tech (Ph.D)	25.11.2024	1	Power Systems & Automation
15	Mr. J. Syam Kumar	Assistant Professor	M.E	02.06.2025	10	Power Systems & Automation

No	Staff Name	Designation	Qualification	Date of Joining	Experience	Area of Specialization
16	Mrs. H. Venkata Jyothi	Assistant Professor	M.Tech	02.06.2025	1	Power Electronics
17	Mrs. G. Lakshmi	Assistant Professor	M.Tech	16.06.2025	9	Power Electronics
18	Mrs. S. Manjusha	Assistant Professor	M.Tech	23.06.2025	3	Power System Control & Automation

EEE Support Staff List

S.No	Name of the Support Staff	Designation	Qualification	Date of Joining (D.M.Y)
1	Mr.T.V.S Sai	Lab Technician	B.TECH	05/09/2024
2	Mr.M.Koteswara Rao	Lab Technician	B.TECH	03/12/2024
3	Mr.P.Santhi Babu	Lab Technician	ITI	16/12/2012
4	Mrs.A.Pavani	Lab Technician	B.TECH	01/06/2018
5	Ms. Ch.Vaishnavi	Lab Technician	B.TECH	01/07/2022
6	Mrs.B. Srinaga Jyothi	Lab Technician	B.TECH	01/09/2022
7	Mr V. Brahma reddy	Lab Technician	ITI	01/-8/2022

Program Outcomes (PO's)

PO1	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO3	Design/development of solutions: Design solutions for complex 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.

PO4	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.
PO5	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
PO6	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
PO7	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.
PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10	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.
PO11	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.
PO12	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.

PSO1	Apply the knowledge of electrical engineering, investigate and solve the complex electrical engineering problems to meet the specified needs with appropriate considerations for the society.
PSO2	Analyze, design and integrate electrical systems and apply modern tools and techniques to the complex engineering problems and create passion for life-long learning.
PSO3	Acquire skills through hands-on experience and work effectively alone or with a team, demonstrating expertise and entrepreneurial mindset.

Student Achievements:

S. No.	Regd. No.	Name of The Student	Name of The Event	Event dates	Name of the Organizing Inst.	Merit/Participation	State – within/out side
1	218X1A0201	Adapa Mani Krishna	Technical Quiz	Innovation Day, October 15, 2024	MIC College of Technology	Participation	State – within
2	218X1A0202	Beluguri Venkata Krishna Vinay	Paper Presentation	Udghosh 2k24,16 & 17 Feb 2024	Chalapathi Institute of Technology	Participation	State – within
3	218X1A0204	Gaddam Kavitha	Technical Quiz	Samkalp2k24-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
4	218X1A0206	Govindu Sravya	Technical Quiz	Innovation Day, October 15, 2024	MIC College of Technology	Participation	State – within
5	218X1A0210	Kotha Venkata Ramya	Technical Quiz	Innovation Day, October 15, 2024	MIC College of Technology	3 rd Prize	State – within
6	218X1A0215	Parimi Sudhakar	Technical Quiz	Samkalp2k24-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
7	218X1A0217	Rupanaguntla Lakshmi Hanuma Santhoshini	Technical Quiz	Samkalp2k24-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	2 nd Prize	State – within
8	218X1A0221	Siddhavantam Hemanth	Paper Presentation	Udghosh 2k24,16 & 17 Feb 2024	Chalapathi Institute of Technology	Participation	State – within
9	218X1A0223	Veerisetty Thilak Kumar	Technical Quiz	Innovation Day, October 15, 2024	MIC College of Technology	Participation	State – within

10	218X1A0225	Jatothu Bhuvaneswari Bai	Paper Presentation	Samkalp2k24-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
11	218X1A0226	Pathlavath Madhavi Bai	Technical Quiz	Samkalp2k24-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
12	228X5A0202	Chatarajupalli Vaishnavi	Paper Presentation	Samkalp2k24-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	1 st Prize	State – within
13	228X5A0204	Dundi Gangadhar Reddy	Paper Presentation	Innovation Day, October 15, 2024	MIC College of Technology	Participation	State – within
14	228X5A0205	Gangavarapu Sangeetha	Technical Quiz	Innovation Day, October 15, 2024	MIC College of Technology	Participation	State – within
15	228X5A0208	Induri Venkatesh	Project Expo	Samkalp2k24-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	1 st Prize	State – within
16	228X5A0210	Jakkampudi Issac Paul	Paper Presentation	Samkalp2k24-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
17	228X5A0212	Kanchukommula Nagababu	Paper Presentation	Udghosh 2k24,16 & 17 Feb 2024	Chalapathi Institute of Technology	Participation	State – within
18	228X5A0214	Katta Komali	Technical Quiz	Samkalp2k24-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
19	228X5A0215	Kondeti Praneeth	Technical Quiz	Innovation Day, October 15, 2024	MIC College of Technology	Participation	State – within
20	228X5A0219	Muragondi Venkata	Project Expo	Samkalp2k24-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	1 st Prize	State – within

		Subrahmanyam			y Institute of Technology		
21	228X5A0222	Pasupuleti Venkatesh	Paper Presentation	Samkalp2k24-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
22	228X5A0223	Pattapuraju Kiranmai	Paper Presentation	Samkalp2k24-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	1 st Prize	State – within
23	228X5A0227	Saikam Yaswanth Varma	Paper Presentation	Udghosh 2k24,16 & 17 Feb 2024	Chalapathi Institute of Technology	Participation	State – within
24	228X5A0229	Shaik Sehan Arif	Technical Quiz	Innovation Day, October 15, 2024	MIC College of Technology	Participation	State – within
25	228X5A0232	Alla Srinu	Paper Presentation	Samkalp2k24-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
26	218X1A0211	Naru Ramanji Reddy	Technical Quiz	Samkalp2k24-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
27	228X1A0202	Allacheruvu Prashanth	Paper Presentation	Innovation Day, October 15, 2024	MIC College of Technology	Participation	State – within
28	228X1A0208	Changalsetty Naga Sai Ganesh	Paper Presentation	Udghosh 2k24,16 & 17 Feb 2024	Chalapathi Institute of Technology	Participation	State – within
29	228X1A0210	Dudekula Roshan Basha	Technical Quiz	Samkalp2k24-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
30	228X1A0212	Gaddam Shankari	Technical Quiz	Innovation Day, October 15, 2024	MIC College of Technology	Participation	State – within

31	228X1A0216	Sai Phanindra Gowra	Paper Presentation	Samkalp2k24-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
32	228X1A0220	Soma Pavan Manoj	Paper Presentation	Udghosh 2k24,16 & 17 Feb 2024	Chalapathi Institute of Technology	Participation	State – within
33	228X1A0223	Tullimilli Niteesh	Technical Quiz	Samkalp2k24-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
34	228X1A0224	Vadithe Nagaraju Naik	Paper Presentation	Innovation Day, October 15, 2024	MIC College of Technology	Participation	State – within
35	228X1A0230	Shaik Abdul Mukhitd	Technical Quiz	Innovation Day, October 15, 2024	MIC College of Technology	Participation	State – within
36	238X5A0203	Bejjam Vijay	Paper Presentation	Samkalp2k24-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
37	238X5A0208	Palagiri Arshiya	Paper Presentation	Udghosh 2k24,16 & 17 Feb 2024	Chalapathi Institute of Technology	Participation	State – within
38	238X5A0210	Peeram Yaseswini	Technical Quiz	Samkalp2k24-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
39	238X5A0215	Tegada Gayathri	Paper Presentation	Samkalp2k24-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
40	238X5A0222	Sidde Lakshmi Venkata Bhupal	Paper Presentation	Udghosh 2k24,16 & 17 Feb 2024	Chalapathi Institute of Technology	Participation	State – within
41	238X5A0225	Makkena Raj Kumar	Technical Quiz	Innovation Day, October 15, 2024	MIC College of Technology	Participation	State – within

42	238X1A0203	Byreddy Venkata Rami Reddy	Technical Quiz	Samkalp2k24-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
43	238X1A0206	Ganapa Bharath Reddy	Paper Presentation	Samkalp2k24-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
44	238X1A0208	Kommetty Pavana Jyothi	Technical Quiz	Samkalp2k24-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
45	238X1A0210	Maddhuri Premchand	Paper Presentation	Samkalp2k24-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
46	238X1A0213	Shaik Asif	Technical Quiz	Innovation Day, October 15, 2024	MIC College of Technology	Participation	State – within
47	238X1A0216	Boggu Ravi Teja	Technical Quiz	Samkalp2k24-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
48	238X1A0219	Valluru Venkata Saikiran	Paper Presentation	Udghosh 2k24,16 & 17 Feb 2024	Chalapathi Institute of Technology	Participation	State – within
49	248X5A0203	Bathula Vinay Babu	Paper Presentation	Innovation Day, October 15, 2024	MIC College of Technology	Participation	State – within
50	248X5A0206	Gangu Hemanth arao	Technical Quiz	Samkalp2k24-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
51	248X5A0208	Kanaka Pradeepkumar	Paper Presentation	Udghosh 2k24,16 & 17 Feb 2024	Chalapathi Institute of Technology	Participation	State – within
52	248X5A0211	Midathana Naresh Kumar	Paper Presentation	Samkalp2k24-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within

53	248X5A0217	Shaik Nagul Shareef	Technical Quiz	Samkalp2k24-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
54	248X5A0219	Sonti Sridhar	Technical Quiz	Innovation Day, October 15, 2024	MIC College of Technology	Participation	State – within
55	248X5A0223	Thumati Manohar	Paper Presentation	Udghosh 2k24,16 & 17 Feb 2024	Chalapathi Institute of Technology	Participation	State – within
56	248X5A0226	Vemula Charan	Paper Presentation	Samkalp2k24-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
57	248X5A0228	Yele Prakash	Paper Presentation	Innovation Day, October 15, 2024	MIC College of Technology	Participation	State – within
58	248X5A0231	Nimmala Reshma	Technical Quiz	Samkalp2k24-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
59	218X1A0225	Jatothu Bhuvaneswari Bai	Paper Presentation	Vignan's Mahotsav 2024, 01-02-2024 To 03-02-2024	Vignan's Foundation For Science, Technology & Research, Guntur	Participation	State – within
60	218X1A0226	Pathlavathi Madhavi Bai	Paper Presentation	Vignan's Mahotsav 2024, 01-02-2024 To 03-02-2024	Vignan's Foundation For Science, Technology & Research, Guntur	Participation	State – within
61	228X5A0202	Chatarajupalli Vaishnavi	Paper Presentation	Vignan's Mahotsav 2024, 01-02-2024 To 03-02-2024	Vignan's Foundation For Science, Technology & Research, Guntur	Participation	State – within

62	238X5A0208	Palagiri Arshiya	Paper Presentation	Vignan's Mahotsav 2024, 01-02-2024 To 03-02-2024	Vignan's Foundation For Science, Technology & Research, Guntur	Participation	State – within
63	238X5A0210	Peeram Yaseswini	Technical Quiz	Vignan's Mahotsav 2024, 01-02-2024 To 03-02-2024	Vignan's Foundation For Science, Technology & Research, Guntur	Participation	State – within
64	238X5A0215	Tegada Gayathri	Technical Quiz	Vignan's Mahotsav 2024, 01-02-2024 To 03-02-2024	Vignan's Foundation For Science, Technology & Research, Guntur	Participation	State – within
65	218X1A0203	Chittipotula Lokesh	Paper Presentation	Medhanvesh 2k24, 22-03-2024 To 23-03-2024	B. V. Raju Institute of Technology, Bhimavaram	1st Prize	Outside state
66	228X5A0224	Porumalla Gopi	Paper Presentation	Medhanvesh 2k24, 22-03-2024 To 23-03-2024	B. V. Raju Institute of Technology, Bhimavaram	1st Prize	Outside state
67	248X5A0231	Nimmala Reshma	Technical Quiz	Medhanvesh 2k24, 22-03-2024 To 23-03-2024	B. V. Raju Institute of Technology, Bhimavaram	Participation	State – within
68	218X1A0204	Gaddam Kavitha	Technical Quiz	Medhanvesh 2k24, 22-03-2024 To 23-03-2024	B. V. Raju Institute of Technology, Bhimavaram	Participation	State – within
69	218X1A0202	Beluguri Venkata Krishna Vinay	Paper Presentation	Viva Vvit 2k24, 21-12-24 To 24-12-24	VVIT,Nambur	Participation	State – within
70	218X1A0204	Gaddam Kavitha	Technical Quiz	Viva Vvit 2k24, 21-12-24 To 24-12-24	VVIT,Nambur	Participation	State – within

71	218X1A0206	Govindu Sravya	Technical Quiz	Viva Vvit 2k24, 21-12-24 To 24-12-24	VVIT,Nambur	Participation	State – within
72	218X1A0210	Kotha Venkata Ramya	Technical Quiz	Viva Vvit 2k24, 21-12-24 To 24-12-24	VVIT,Nambur	Participation	State – within
73	228X1A0204	A.V.S.S. Kousalya	Posto Preso	Vidyut Tarang-2024, 28-12-2024	R.V.R & J.C College of Engineering, Chowdavaram	Participation	State – within
74	238X5A0208	P.Arshiy a	Posto Preso	Vidyut Tarang-2024, 28-12-2024	R.V.R & J.C College of Engineering, Chowdavaram	Participation	State – within
75	238X5A0210	P.Yases wini	Posto Preso	Vidyut Tarang-2024, 28-12-2024	R.V.R & J.C College of Engineering, Chowdavaram	Participation	State – within
76	238X5A0215	T.Gayath ri	Posto Preso	Vidyut Tarang-2024, 28-12-2024	R.V.R & J.C College of Engineering, Chowdavaram	Participation	State – within

Faculty Achievements:

- List of Publications:**

S. No	Name of the author	Title of the Paper	Name of the Journal	Month & Year of Publications	ISSN /DOI Number	Remarks
1	Dr. L. Shamukha Rao	Cryptography algorithms for enhancing security in IoT based Maflly MPPT system under partial shading conditions	Journal of Discrete Mathematical Sciences & Cryptography	OCT 2024	ISSN 0972-0529	SCOUPS
2	Dr. L. Shamukha Rao	Cybersecurity enabled electric vehicle charging and battery management system	Journal of Discrete Mathematical	OCT 2024	ISSN 0972-0529	SCOUPS

			Sciences & Cryptography			
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• **List of Conferences:**

S. No	Name of the Faculty	Name of the Conference	Date & Year	Organizing Institution
1	Dr. L. Shanmukha Rao	Performance Evaluation of a 3-Ø Grid-Interfaced 100 kW Solar Photovoltaic System	18-01-2025 to 19-01-2025	MANIT Bhopal, India
2	Dr.P.P. Sharma	Performance Evaluation of a 3-Ø Grid-Interfaced 100 kW Solar Photovoltaic System	18-01-2025 to 19-01-2025	MANIT Bhopal, India

• **List of FDP's:**

S.No.	Name of the Faculty	FDP / Workshop /Seminar/S TTP	Title of the Program	Date(s)		Organization
				From	To	
1	Dr. K. Hari Krishna	Workshop	Electric Vehicle Technologies	24-03-2025	25-03-2025	Acharya Nagarjuna University
	Dr. K. Hari Krishna	FDP	Science, Technology and Innovation for Sustainable Development	27-01-2025	31-01-2025	Narasaraopeta Engineering College
2	Dr. G. Kishor Babu	FDP	Science, Technology and Innovation for Sustainable Development	27-01-2025	31-01-2025	Narasaraopeta Engineering College

3	Mr.M.V.N. Murthy	Workshop	Electric Vehicle Technologies	24-03-2025	25-03-2025	Acharya Nagarjuna University
4	Mr.P. Venubabu	FDP	Science, Technology and Innovation for Sustainable Development	27-01-2025	31-01-2025	Narasaraopeta Engineering College
5	Mr.M. Ranjith Kumar	Workshop	Electric Vehicle Technologies	24-03-2025	25-03-2025	Acharya Nagarjuna University

➤ **Student workshops and guest lecturers:**

S. No	Name of the Event Organized	Event Type	Date	Resource Person with Affiliation
1	A Five-Day Workshop on Internet of Things (IoT.) in association with APSSDC	Workshop	30-12-2024 to 04-01-2025	Mr. B. Mahidhar, Trainer, APSSDC, Vijayawada, Andhra Pradesh
2	“ Career in Digital Forensics & Incident Response(DFIR)	Career Talk	11-01-2025	Lt Col(Dr.) Santosh Khadsare, Chief Technology Officer(DFIR), Systools
3	“World of Digital Risk in Evolving Digital Era”	Career Talk	17-01-2025	Vinit Sinha, Chief Information Security Officer(CISCO)
4	“The AI Networking Era: Exciting Career Opportunities”	Career Talk	04-02-2025	Arun Kumar, Principal Engineer&AI/ML Leader, Juniper
5	“Ansys Academic Program-Developing the Next Generation of Engineers”	Career Talk	05-02-2025	Abhimanyu Singh, Technical Leader – Academic (India and ASEAN), ANSYS
6	Guest lecture on "Emerging technologies"	Guest Lecture	20-10-2023	Dr. Y.S. Kishore Babu Professor of EEE & HOD, UCEN, JNTUK, Narasaraopet.

Global and Regional Highlights:

- **Clean energy meets over 40% of global electricity demand**

For the first time since the 1940s, clean energy (renewables + nuclear) accounted for more than 40% of the world's electricity in 2024, driven by rapid solar expansion and overall low-carbon growth surpassing electricity demand growth The Guardian.

- **UK to invest £77 billion in electricity networks**

British transmission owners plan up to £77.4 bn in investments from 2026–2031 to prepare for clean power and decarbonize the system. National Grid, ScottishPower, and SSEN have major spending plans, though concerns about consumer costs and regulatory reform remain Financial Times.

- **India's electricity demand surged 10.4% amid 2024 heatwaves**

From April to June 2024, India's electricity demand rose 10.4% year-over-year—largely due to air conditioning use—and also saw a 6.1% increase for April–September. Clean energy met 33% of that demand, with coal supplying 64% India TodayThe Times of India.

- **Extreme weather fueled a 4.3% rise in global electricity usage**

The IEA's 2025 Global Energy Review reports electricity demand grew 4.3% in 2024, double the pace of 2023. Extreme temperatures accounted for 20% of the growth, while vehicles, data centers, and electricity-driven industry also contributed. Renewables and nuclear delivered 80% of added generation, with global clean energy share rising to 40% Down To Earth.

Power Sector Events & Infrastructure News

- **Mozambique launches \$6 billion hydroelectric project**

The Mphanda Nkuwa dam, Africa's largest power initiative in 50 years, is under development on the Zambezi River, aiming for 1,500 MW capacity by 2031.

Supported by the World Bank, it seeks nationwide electrification, though debt and rural access remain concerns AP News.

- **AusNet fined \$70k in Australia for electricity tower non-compliance**

Energy Safe Victoria penalized AusNet for failing to upgrade transmission towers by

early 2022, as required under their Electricity Safety Management Scheme. Upgrades were completed in January 2025 following a 2024 improvement notice Herald Sun.

- **Madhya Pradesh plans massive Rs 32,500 crore thermal power expansion**

Torrent Power and Adani Power will invest Rs 22,000 crore and Rs 10,500 crore respectively to construct new coal-fired plants totaling 2,400 MW. These projects are projected to create 17,000 jobs and run under long-term power purchase agreements The Times of India.

Power Sector Recognition & Education

- **UPPTC wins State Transmission Company of the Year**

Uttar Pradesh Power Transmission Corporation was honored at the India Electricity–Powering India Awards 2025, credited for record peak demand handling, extensive transmission infrastructure, and innovation such as drone-based line monitoring The Times of India.

- **Guest lecture on industrial automation at NIT Nagpur**

NIT's Electrical Engineering Department hosted a lecture by a VNIT professor, offering insights into modern automation technologies to students and faculty The Times of India.

Additional Key Electricity Trends of 2024:

- **2004 Lebanon blackout due to fuel exhaustion**

On 17 August 2024, Lebanon experienced a total blackout after Électricité du Liban depleted its fuel reserves, shutting down power plants and essential services like airports and water systems for up to 48 hours Wikipedia.

- **Ecuador's electricity crisis from drought**

Widespread hydroelectric failures caused extended rolling blackouts (up to 14 hours per day) between late 2023 and spring 2024. The outages concluded by 20 December 2024 after governmental interventions Wikipedia.

- **Iran's winter energy shortage**

Severe gas supply issues in December 2024 led to blackouts across at least 23

provinces in Iran, causing partial closure of schools, government offices, and businesses, with multiple power plants forced offline Wikipedia.

- **New solar power stations commissioned in Africa**
 - *Jambur Solar Power Station* in Gambia (23 MW) began operations in March 2024, supported by EU and World Bank funding Wikipedia.
 - *Itimpi Solar Power Station* in Zambia (60 MW) was commissioned in April 2024, boosting energy supply amid ongoing hydro deficits Wikipedia.

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