



KALLAM HARAMADHAREDDY INSTITUTE OF TECHNOLOGY

Affiliated to JNTU Kakinada, accredited by NBA, Accredited by NAAC
with A Grade

CHOWDAVARAM (POST), GUNTUR, ANDHRA PRADESH-522019

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EEE-IMPACT Y

QUATERLY- NEWSLETTER

OCTOBER 2K24-DECEMBER 2K24

**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.



Department Vision:

To produce globally competent man power which can contribute to the development and welfare of the society by meeting the needs of both the nation and the international community to empower the students to become technologically vibrant , innovative and emotionally matured and to train them to face the challenges of the quality conscious globalized world economy

Department Mission:

- To create educational opportunities to the predominantly agrarian society in and around guntur
- To provide an environment most conducive to learning and to create a stimulating intellectual atmosphere on campus
- To achieve academic excellence
- To support economically weak students to pursue education
- To establish partnership between institution and industry

Editorial Board:

Chief Editor:

Dr. K. Hari Krishna, Professor, HOD, EEE

Editors:

Dr. G. Kishor Babu, Professor, EEE

Dr. P.P. Sharma,
Professor, EEE

Faculty Members:

Mr. M. V. N. Murthy,
Asst. Prof., EEE,
Mr. J. Sunil Babu,
Asst. Prof., EEE.

Student Members:

Govindu Sravya (IV-EEE),
SK. Khadar Basha (III-EEE),
Koppolu Mahesh (II-EEE).

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,	MIC College of Technology	Participation	State – within

				October 15, 2024			
2	218X1A0204	Gaddam Kavitha	Technical Quiz	Samkalp2k24-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
3	218X1A0206	Govindu Sravya	Technical Quiz	Innovation Day, October 15, 2024	MIC College of Technology	Participation	State – within
4	218X1A0210	Kotha Venkata Ramya	Technical Quiz	Innovation Day, October 15, 2024	MIC College of Technology	3 rd Prize	State – within
5	218X1A0215	Parimi Sudhakar	Technical Quiz	Samkalp2k24-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
6	218X1A0217	Rupanaguntla Lakshmi Hanuma Santhoshini	Technical Quiz	Samkalp2k24-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	2 nd Prize	State – within
7	218X1A0223	Veerisetty Thilak Kumar	Technical Quiz	Innovation Day, October 15, 2024	MIC College of Technology	Participation	State – within
8	218X1A0225	Jatothu Bhuvaneswari Bai	Paper Presentation	Samkalp2k24-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
9	218X1A0226	Pathlavathi Madhavi Bai	Technical Quiz	Samkalp2k24-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
10	228X5A0202	Chatarajupalli Vaishnavi	Paper Presentation	Samkalp2k24-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	1 st Prize	State – within
11	228X5A0204	Dundi Gangadhar Reddy	Paper Presentation	Innovation Day, October 15, 2024	MIC College of Technology	Participation	State – within
12	228X5A0205	Gangavarapu Sangeetha	Technical Quiz	Innovation Day, October 15, 2024	MIC College of Technology	Participation	State – within

13	228X5A0208	Induri Venkatesh	Project Expo	Samkalp2k2 4-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	1 st Prize	State – within
14	228X5A0210	Jakkampudi Issac Paul	Paper Presentation	Samkalp2k2 4-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
15	228X5A0214	Katta Komali	Technical Quiz	Samkalp2k2 4-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
16	228X5A0215	Kondeti Praneeth	Technical Quiz	Innovation Day, October 15, 2024	MIC College of Technology	Participation	State – within
17	228X5A0219	Muragon di Venkata Subrahmanyam	Project Expo	Samkalp2k2 4-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	1 st Prize	State – within
18	228X5A0222	Pasupuleti Venkatesh	Paper Presentation	Samkalp2k2 4-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
19	228X5A0223	Pattapuraju Kiranmai	Paper Presentation	Samkalp2k2 4-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	1 st Prize	State – within
20	228X5A0229	Shaik Sehan Arif	Technical Quiz	Innovation Day, October 15, 2024	MIC College of Technology	Participation	State – within
21	228X5A0232	Alla Srinu	Paper Presentation	Samkalp2k2 4-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
22	218X1A0211	Naru Ramanji Reddy	Technical Quiz	Samkalp2k2 4-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
23	228X1A0202	Allacheruvu Prashanth	Paper Presentation	Innovation Day, October 15, 2024	MIC College of Technology	Participation	State – within
24	228X1A0210	Dudekula Roshan Basha	Technical Quiz	Samkalp2k2 4-27 & 28 Sep 2024	Kallam Haranadhareddy	Participation	State – within

					y Institute of Technology		
25	228X1A0212	Gaddam Shankari	Technical Quiz	Innovation Day, October 15, 2024	MIC College of Technology	Participation	State – within
26	228X1A0216	Sai Phanindra Gowra	Paper Presentation	Samkalp2k2 4-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
27	228X1A0223	Tullimilli Niteesh	Technical Quiz	Samkalp2k2 4-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
28	228X1A0224	Vadithe Nagaraju Naik	Paper Presentation	Innovation Day, October 15, 2024	MIC College of Technology	Participation	State – within
29	228X1A0230	Shaik Abdul Mukhitd	Technical Quiz	Innovation Day, October 15, 2024	MIC College of Technology	Participation	State – within
30	238X5A0203	Bejjam Vijay	Paper Presentation	Samkalp2k2 4-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
31	238X5A0210	Peeram Yaseswini	Technical Quiz	Samkalp2k2 4-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
32	238X5A0215	Tegada Gayathri	Paper Presentation	Samkalp2k2 4-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
33	238X5A0225	Makkena Raj Kumar	Technical Quiz	Innovation Day, October 15, 2024	MIC College of Technology	Participation	State – within
34	238X1A0203	Byreddy Venkata Rami Reddy	Technical Quiz	Samkalp2k2 4-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
35	238X1A0206	Ganapa Bharath Reddy	Paper Presentation	Samkalp2k2 4-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within

36	238X1A0208	Kommis etty Pavana Jyothi	Technica l Quiz	Samkalp2k2 4-27 & 28 Sep 2024	Kallam Haranadharedd y Institute of Technology	Participati on	State – within
37	238X1A0210	Maddhur i Premcha nd	Paper Presentat ion	Samkalp2k2 4-27 & 28 Sep 2024	Kallam Haranadharedd y Institute of Technology	Participati on	State – within
38	238X1A0213	Shaik Asif	Technica l Quiz	Innovation Day, October 15, 2024	MIC College of Technology	Participati on	State – within
39	238X1A0216	Boggu Ravi Teja	Technica l Quiz	Samkalp2k2 4-27 & 28 Sep 2024	Kallam Haranadharedd y Institute of Technology	Participati on	State – within
40	248X5A0203	Bathula Vinay Babu	Paper Presentat ion	Innovation Day, October 15, 2024	MIC College of Technology	Participati on	State – within
41	248X5A0206	Gangu Hemanth arao	Technica l Quiz	Samkalp2k2 4-27 & 28 Sep 2024	Kallam Haranadharedd y Institute of Technology	Participati on	State – within
42	248X5A0211	Midatha na Naresh Kumar	Paper Presentat ion	Samkalp2k2 4-27 & 28 Sep 2024	Kallam Haranadharedd y Institute of Technology	Participati on	State – within
43	248X5A0217	Shaik Nagul Shareef	Technica l Quiz	Samkalp2k2 4-27 & 28 Sep 2024	Kallam Haranadharedd y Institute of Technology	Participati on	State – within
44	248X5A0219	Sonti Sridhar	Technica l Quiz	Innovation Day, October 15, 2024	MIC College of Technology	Participati on	State – within
45	248X5A0226	Vemula Charan	Paper Presentat ion	Samkalp2k2 4-27 & 28 Sep 2024	Kallam Haranadharedd y Institute of Technology	Participati on	State – within
46	248X5A0228	Yele Prakash	Paper Presentat ion	Innovation Day, October 15, 2024	MIC College of Technology	Participati on	State – within
47	248X5A0231	Nimmala Reshma	Technica l Quiz	Samkalp2k2 4-27 & 28 Sep 2024	Kallam Haranadharedd y Institute of Technology	Participati on	State – within

48	218X1A0202	Beluguri Venkata Krishna Vinay	Paper Presentation	Viva Vvit 2k24, 21-12-24 To 24-12-24	VVIT,Nambur	Participati on	State – within
49	218X1A0204	Gaddam Kavitha	Technica l Quiz	Viva Vvit 2k24, 21-12-24 To 24-12-24	VVIT,Nambur	Participati on	State – within
50	218X1A0206	Govindu Sravya	Technica l Quiz	Viva Vvit 2k24, 21-12-24 To 24-12-24	VVIT,Nambur	Participati on	State – within
51	218X1A0210	Kotha Venkata Ramya	Technica l Quiz	Viva Vvit 2k24, 21-12-24 To 24-12-24	VVIT,Nambur	Participati on	State – within
52	228X1A0204	A.V.S.S. Kousalya	Posto Preso	Vidyut Tarang-2024, 28-12-2024	R.V.R & J.C College of Engineering, Chowdavaram	Participati on	State – within
53	238X5A0208	P.Arshiy a	Posto Preso	Vidyut Tarang-2024, 28-12-2024	R.V.R & J.C College of Engineering, Chowdavaram	Participati on	State – within
54	238X5A0210	P.Yases wini	Posto Preso	Vidyut Tarang-2024, 28-12-2024	R.V.R & J.C College of Engineering, Chowdavaram	Participati on	State – within
55	238X5A0215	T.Gayath ri	Posto Preso	Vidyut Tarang-2024, 28-12-2024	R.V.R & J.C College of Engineering, Chowdavaram	Participati on	State – within

Faculty Achievements:

- List of Publications:**

S. No	Name of the author	Title of the Paper	Name of the Journal	Month & Year of Publica tions	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 Sciences & Cryptography	OCT 2024	ISSN 0972-0529	SCOUPS
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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	One week workshop on “PLC Training” in association with APSSDC	Workshop	10-06-2024 to 15-06-2024	Mr. B. Mahidhar, Trainer, APSSDC, Vijayawada, Andhra Pradesh
2	One week workshop on “PLC Training” in association with APSSDC	Workshop	09-09-2024 to 14-09-2024	Mr. B. Mahidhar, Trainer, APSSDC, Vijayawada, Andhra Pradesh
3	Adjudicator for SAMKALP-2K24	Technical Symposium	27-09-2024 to 28-09-2024	Dr.Venka Dega Rajaji, ANU,Guntur
4	Guest lecture on "Noval Operation and control techniques for Grid connected renewable energy systems"	Guest Lecture	21-08-2024	Dr.Venka Dega Rajaji, ANU,Guntur
5	“ Careers in Privacy”	Career Talk	08-06-2024	Supreet Panigrahi, Senior Manager, Privacy Control Assurance Standard Chartered Bank
6	“Data Analytics and AI Application and Learning Models”	Career Talk	27-06-2024	Vipul Jhun jhunwala, Senior Manager, Data Analytics and AI, SAP
7	“Evaluation of AI and its Impacts”	Career Talk	05-07-2024	Badrinath Nukala, Associate Consultant, KPMG
8	“Data Engineering and Careers”	Career Talk	13-07-2024	Aravind Ramachandran, Senior Manager, Tredence

9	“Essential Skills for Industry Success”	Career Talk	20-07-2024	Valmik Sangale, General Manager, MAGNA
10	“Orientation on Hackathon”	Awareness Session	27-07-2024	Mr. Sridhar Arumugasamy, Director, Six Phrase
11	“Process Mining and Career Opportunities”	Webinar	22-10-2024	Poornima Dhall, Lead Partner Manager, Academic Alliance, Cellonis
12	“Kick Start with Cybersecurity”	Webinar	29-10-2024	Umakanth Tripathi, Director, Cyber Security, LTIMindtree
13	“Process Mining and Career Opportunities”	Webinar	03-12-2024	Poornima Dhall, Lead Partner Manager, Academic Alliance, Celonis
14	“Building Skills and Sharpening it- How to develop a skill”	Career Talk	12-12-2024	Sunil Sonare, Chief Technology Officer, Tech4 logic
15	“Career Opportunities in the Cybersecurity Field”	Career Talk	21-12-2024	Ummed Meel, Cyber Expert- Cyber Advisory Services
16	“Building your Career in Emerging Technologies”	Career Talk	30-12-2024	Gajendra Deshpande, Founder and Managing Director, D Theta Dynamics

➤ **Tech news:**

Key Tech / AI News Oct–Dec 2024

1. NVIDIA’s Push in India & Regional AI Infrastructure

- NVIDIA launched *Nemotron-4-Mini-Hindi-4B*, a Hindi language model, strengthening its Indian-language offerings. CNBC
- The company also partnered with firms like Reliance, Yotta, and Tata Communications to expand AI compute infrastructure. By end-2024, India was expected to have ~20× more compute than a year prior. Fortune India+1
- Tata Communications is integrating NVIDIA’s tech (e.g. Hopper GPUs, Omniverse, etc.) into its AI cloud offerings. Equitymaster+1

2. OpenAI's "12 Days of OpenAI" (Dec 2024)

OpenAI ran a series of daily launches / updates from December 5 onwards, unveiling many features & models. Highlights include:

- *ChatGPT Pro* subscription with upgraded models (o1, o1-mini, GPT-4o) and "Pro Mode". TelecomTalk+1
- *Sora* — a text-to-video generation model (up to 1080p, 20 seconds). TelecomTalk
- *Canvas* — updated collaborative tool inside ChatGPT for writing and coding, plus integrations & version control tools. TelecomTalk
- New developer-oriented tools: e.g. reinforcement fine-tuning, expanded API access, cheaper model modes, improved voice/video/screen sharing etc. TelecomTalk

3. Regulation, Policy & Governance Moves in India

- The Indian government expressed openness to a dedicated law for regulating artificial intelligence but emphasized the need for "a lot of consensus". IT Minister Ashwini Vaishnaw made this statement in December. www.ndtv.com
- Earlier, discussions or plans for institutions / frameworks around safety, ethics, standards for AI (for instance in India) were active. Business Standard+1

4. Corporate / Market Movements

- Layoffs in the tech sector showed signs of slowing. The number of job cuts in late 2024 (Oct, Nov, Dec) declined compared to earlier in the year. The Indian Express
- Nvidia's market performance surged strongly over the year, largely driven by steep demand for AI-accelerated hardware. The Times of India+1

5. Other Notable Tech & Product Launches

- New AI laptops like Acer's Predator Helios Neo-16 series launched in India, equipped with RTX-5070 GPUs and OLED displays. The Times of India
- OpenAI made a hire: Caitlin Kalinowski (formerly Meta's AR glasses lead) to head hardware / robotics efforts. Signals renewed focus on building out robotics and hardware in addition to raw AI models. Business Insider

Trends & Implications

- **AI improving at multiple fronts** — language coverage (e.g. Indian languages), multimodal (video, voice), better tools for fine-tuning & developer access, etc.
- **Compute infrastructure becomes a bottleneck / strategic lever** — companies & governments are investing heavily in compute / cloud / localized AI infrastructure (India is a good example).

- **Regulatory awareness rising** — both in India and globally, there's increasing discussion around AI law, safety, ethics. The delays & careful wording (e.g. “consensus required”) show that policy is still catching up.
- **Shifting business models:** Subscription / Pro models for advanced AI tools; pay for compute / access; developers getting more options; hardware + cloud + AI stack convergence.
- **Hardware & market dominance matters** — firms like NVIDIA have central roles, which means supply chain, geopolitics, trade regulation (export controls etc.) will increasingly matter.