

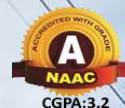


KALLAM HARAMADHAREDDY INSTITUTE OF TECHNOLOGY

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

JANUARY 2K25-MARCH 2K25

**Department of Electrical and
Electronics Engineering**

INSIDE THIS ISSUE:

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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, 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	Samkalp2k2 4-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
12	228X5A0202	Chataraj upalli Vaishnavi	Paper Presentation	Samkalp2k2 4-27 & 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	Samkalp2k2 4-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	1 st Prize	State – within
16	228X5A0210	Jakkampudi Issac Paul	Paper Presentation	Samkalp2k2 4-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
17	228X5A0212	Kanchukom Nagababu	Paper Presentation	Udghosh 2k24,16 & 17 Feb 2024	Chalapathi Institute of Technology	Participation	State – within
18	228X5A0214	Katta Komali	Technical Quiz	Samkalp2k2 4-27 & 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	Muragon Venkata Subrahmanyam	Project Expo	Samkalp2k2 4-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	1 st Prize	State – within
21	228X5A0222	Pasupule Venkatesh	Paper Presentation	Samkalp2k2 4-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
22	228X5A0223	Pattapuraju Kiranmai	Paper Presentation	Samkalp2k2 4-27 & 28 Sep 2024	Kallam Haranadhareddy	1 st Prize	State – within

					y Institute of Technology		
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	Samkalp2k2 4-27 & 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	Samkalp2k2 4-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
39	238X5A0215	Tegada Gayathri	Paper Presentation	Samkalp2k2 4-27 & 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	Samkalp2k2 4-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
43	238X1A0206	Ganapa Bharath Reddy	Paper Presentation	Samkalp2k2 4-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
44	238X1A0208	Kommisetty Pavana Jyothi	Technical Quiz	Samkalp2k2 4-27 & 28 Sep 2024	Kallam Haranadhareddy Institute of Technology	Participation	State – within
45	238X1A0210	Maddhuri Premchand	Paper Presentation	Samkalp2k2 4-27 & 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	Kanakam 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 Bhuvane swari Bai	Paper Presentat ion	Vignan's Mahotsav 2024, 01-02-2024 To 03-02-2024	Vignan's Foundation For Science, Technology & Research, Guntur	Participati on	State – within
60	218X1A0226	Pathlavat h Madhavi Bai	Paper Presentat ion	Vignan's Mahotsav 2024, 01-02-2024 To 03-02-2024	Vignan's Foundation For Science, Technology & Research, Guntur	Participati on	State – within
61	228X5A0202	Chataraj upalli Vaishnav i	Paper Presentat ion	Vignan's Mahotsav 2024, 01-02-2024 To 03-02-2024	Vignan's Foundation For Science, Technology & Research, Guntur	Participati on	State – within
62	238X5A0208	Palagiri Arshiya	Paper Presentat ion	Vignan's Mahotsav 2024, 01-02-2024 To 03-02-2024	Vignan's Foundation For Science, Technology & Research, Guntur	Participati on	State – within
63	238X5A0210	Peeram Yaseswi ni	Technica l Quiz	Vignan's Mahotsav 2024, 01-02-2024 To 03-02-2024	Vignan's Foundation For Science, Technology & Research, Guntur	Participati on	State – within
64	238X5A0215	Tegada Gayathri	Technica l Quiz	Vignan's Mahotsav 2024, 01-02-2024 To 03-02-2024	Vignan's Foundation For Science, Technology & Research, Guntur	Participati on	State – within
65	218X1A0225	Jatothu Bhuvane swari Bai	Paper Presentat ion	Medhanves h 2k24, 22-03-2024 To 23-03-2024	B. V. Raju Institute of Technology, Bhimavaram	Participati on	State – within
66	228X5A0205	Gangava rapu Sangeeth a	Paper Presentat ion	Medhanves h 2k24, 22-03-2024 To 23-03-2024	B. V. Raju Institute of Technology, Bhimavaram	Participati on	State – within
67	248X5A0231	Nimmala Reshma	Technica l Quiz	Medhanves h 2k24, 22-03-2024 To 23-03-2024	B. V. Raju Institute of Technology, Bhimavaram	Participati on	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.Yaseswini	Posto Preso	Vidyut Tarang-2024, 28-12-2024	R.V.R & J.C College of Engineering, Chowdavaram	Participation	State – within
76	238X5A0215	T.Gayathri	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
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1	Dr. L. Shamukha Rao	Cryptography algorithms for enhancing security in IoT based Mafly 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

• **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.

➤ **Tech news:**

Key Developments Jan-Mar 2025

1. DeepSeek R1 & Chinese AI Competition

- On 20 January 2025, DeepSeek released its model *DeepSeek-R1* (which uses “chain-of-thought” style reasoning), claiming performance comparable to OpenAI’s o1 model on tasks in math, logic, reasoning. Wikipedia+3Wikipedia+3mrjrecruitment.com+3

- DeepSeek's app quickly became #1 free app on the iOS App Store in the US, which had market reverberations including a drop in NVIDIA's stock.

Wikipedia+2mrjrecruitment.com+2

2. US "Stargate Project"

- Announced 21 January: a joint venture by OpenAI, SoftBank, Oracle, MGX and backed politically in the US, called *Stargate*, to build large-scale AI infrastructure over ~4 years, with a proposed \$500B investment. Wikipedia+2KITRUM+2

3. International AI Safety & Policy Moves

- The *International AI Safety Report* was published on 29 January 2025, by ~96 experts, for the governments involved in prior AI summits (UK, etc.). Topics included risks, climate, cyberwar, jobs etc. Wikipedia
- The AI Action Summit was held in Paris, 10-11 February, co-chaired by France and India. Over 100 countries attended, focusing on AI governance, safety, international cooperation. Wikipedia

4. Major Product / Hardware / AI Model Launches and Upgrades

- At CES 2025 (early January), NVIDIA unveiled several products:
 - *Cosmos foundation models* — for generating photorealistic video, to help train robots / self-driving cars with synthetic data. Reuters
 - New gaming chips: RTX 50-series, first desktop computers from NVIDIA, plus an Orin automotive OS deal with Toyota. Reuters
- Google made updates: *Gemini 2.0 Flash*, improvements in Gemini Live (users can include images, files, YouTube videos in conversations etc.) blog.google

5. Other Tech / Consumer & Device News

- Samsung expanded its Galaxy Book5 Pro / Galaxy Book5 360 laptop line with AI features. Also enhancements to the Galaxy Ring etc. Medium
- Huawei launched the Enjoy 70X phone in January with satellite communication, 120Hz display, AI "wet-hand touch detection" etc. Medium
- In March, Samsung introduced new Galaxy A-series phones (Galaxy A56 5G, A36 5G, A26 5G) with "Awesome Intelligence" packaged features (AI tools for search, filters, best face etc.) and better OS / security support. Medium

6. Regulation, Self-Regulation, Ethical & Safety Frameworks

- India: The Fintech sector introduced its first *RegTech Code of Conduct* via FACE (Fintech Association for Consumer Empowerment), recognized by RBI as a self-regulatory organization. This aims to standardize ethical/security/transparency norms. The Times of India

- Globally: Governments pushing discussions around AI safety norms; reports like the International AI Safety Report feed into regulation and policy. Wikipedia+1

7. Models & AI's Capabilities Push

- Alongside DeepSeek, there were announcements / rumors about other models (open source etc.) with large parameter counts or new reasoning abilities. The AI Track
- There is also increased focus on “agentic” AI: systems that can take actions (book flights, send emails, manage workflows) rather than purely respond to prompts. Analytics Vidhya+1

Trends & Implications

- Intensifying AI Competition: China (DeepSeek, Baidu etc.) and US/other countries are accelerating model development & trying to compete not just on scale but cost and reasoning ability.
- Compute Infrastructure & Strategic Investment: Large scale projects (e.g. Stargate) show that compute remains a bottleneck; countries & companies are making huge bets on infrastructure.
- Safety, Governance & Ethics are no longer side topics — they are being institutionalized (summits, reports, codes of conduct).
- AI everywhere: From phones & laptops to healthcare, automotive, consumer electronics — AI is being baked into more products, features.
- Accessibility & cost are important: Models / apps that deliver strong performance at lower cost are gaining attention; this helps spread adoption and increases pressure on premium offerings to justify their value.