

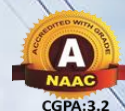


KALLAM HARAMADHAREDDY INSTITUTE OF TECHNOLOGY

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

CHOWDAVARAM (POST), GUNTUR, ANDHRA PRADESH-522019

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QUATERLY- NEWSLETTER

JANUARY 2K23-MARCH 2K23

**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. L.Shanmukharao, Professor, HOD, EEE

Editors:

Dr. K. Hari Krishna, Professor, 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:

Koppolu Mahesh (IV-EEE).

Gaddam Shankari (III EEE)

Bellamkonda Deepthi (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/ outside
1	198X1A0206	Dosakayalapati Sravani	Paper Presentation	National Science Day, 28 Th Feb 2023	MIC College of Technology	Participation	State – within
2	198X1A0222	Raprolu Vaishnavi Sri Mowkthika	Paper Presentation	National Science Day, 28 Th Feb 2023	MIC College of Technology	Participation	State – within
3	208X5A0205	Dharam Surendra	Paper Presentation	National Science Day, 28 Th Feb 2023	MIC College of Technology	Participation	State – within
4	208X5A0214	Sangu Bala Pushpa Latha	Paper Presentation	National Science Day, 28 Th Feb 2023	MIC College of Technology	Participation	State – within
5	208X1A0205	Bhimi Reddy Sai Vighnesh Reddy	Paper Presentation	National Science Day, 28 Th Feb 2023	MIC College of Technology	2 nd Prize	State – within
6	208X1A0208	Busireddy Mounica	Technical Quiz	National Science Day, 28 Th Feb 2023	MIC College of Technology	Participation	State – within
7	208X1A0219	Kommareddy Sambhi Reddy	Paper Presentation	National Science Day, 28 Th Feb 2023	MIC College of Technology	2 nd Prize	State – within
8	208X1A0225	Mule Venkata Vinod Reddy	Technical Quiz	National Science Day, 28 Th Feb 2023	MIC College of Technology	Participation	State – within
9	208X1A0233	Sagabandi Lavanya	Technical Quiz	National Science Day, 28 Th Feb 2023	MIC College of Technology	Participation	State – within
10	218X5A0212	M .Manideep	Technical Quiz	National Science Day, 28 Th Feb 2023	MIC College of Technology	Participation	State – within
11	218X1A0218	Sanagapalli Gopichand	Technical Quiz	National Science	MIC College of Technology	Participation	State – within

				Day,28 Th Feb 2023			
12	228X5A0225	Pulivarthi Akash	Technical Quiz	Engineers Day , 14 Th Sep 2022	Potti Sriramulu Chalavadi Mallikarjuna Rao College of Engineering & Technology	Participa tion	State – within

Faculty Achievements:

- List of Publications:**

S. No	Name of the Author/s	Title of Paper	Name of the Journal	Month & Year of Publications	ISSN /DOI Number	Remarks
1	Dr. K. Hari Krishna	ANFIS-GA based hybrid control method for enhancement of DC micro grids using electric spring	Mathematical Statistician and Engineering Applications	AUG 2022	ISSN: 2094-0343	Scopus
2	Dr. K. Hari Krishna	Electric spring-based voltage control of DC micro-grids using intelligent controllers	International Journal of Intelligent Systems and Applications in Engineering	NOV 2022	ISSN: 2147-6799	Scopus
3	Dr. G. Kishor Babu	Analysis of battery management system for electric vehicles	Mukt Shabd Journal	JUNE 2023	ISSN: 2347-3150	UGC

- List of Conferences:**

S. No	Name of the Faculty	Name of the Conference	Date & Year	Organizing Institution
1	Dr. K. Hari Krishna	Power Quality Enhancement in DC Microgrids by Model Predictive Control of Electric Springs	04-08-2022 to 06-08-2022	Vellore Institute of Technology, Vellore

2	Dr. L. Shanmukha Rao	IoT Based Event Logger for Railway Systems	07-11-2022 to 11-11-2022	Central University of Haryana
3	Dr. L. Shanmukha Rao	IoT Based Interlocking System for Modern Electric Railway System	07-11-2022 to 11-11-2022	Central University of Haryana
4	Dr. L. Shanmukha Rao	An Improved System Performance Using ANN-FUZZY Logic and MSHO Control for BES-Solar PV and Wind Plant Based Micro-Grid System	25-08-2022 to 26-08- 2022	College of Engineering Perumon, Kollam, Kerala
5	Dr. L. Shanmukha Rao	Improved Power Quality SOGI Based Grid Integrated PV System under Abnormal Conditions by using Interweaved GI	21-07-2022 to 23-07- 2022	Sreenidhi Inst. of Science & Tech, Hyderabad, India
6	Dr. L. Shanmukha Rao	Power Quality Enhancement Based on a Recursive Digital Filter by Using Cascaded Distributed Grid-Solar PV System	21-07-2022 to 23-07- 2022	Sreenidhi Inst. of Science & Tech, Hyderabad, India
7	Dr. L. Shanmukha Rao	Design of Novel Non-Isolated Modified SEPIC Converter Based Onboard PEV Charger	21-07-2022 to 23-07- 2022	Sreenidhi Inst. of Science & Tech, Hyderabad, India
8	Dr. L. Shanmukha Rao	A Solar-PV/BESS Powered Multi-Input DC-DC Boost Converter Fed BLDC Motor Drive	21-07-2022 to 23-07- 2022	Sreenidhi Inst. of Science & Tech, Hyderabad, India
9	Dr. L. Shanmukha Rao	A Solar-PV Integrated Novel Reduced-Switch UPQC Device for Power-Quality Improvement	21-07-2022 to 23-07- 2022	Sreenidhi Inst. of Science & Tech, Hyderabad, India
10	Dr.P.P. Sharma	An Improved System Performance Using ANN-FUZZY Logic and MSHO Control for BES-Solar PV and Wind Plant Based Micro-Grid System	25-08-2022 to 26-08- 2022	College of Engineering Perumon, Kollam, Kerala
11	Mr. M. V. N. Murthy	Design of Novel Non-Isolated Modified SEPIC Converter Based Onboard PEV Charger	21-07-2022 to 23-07- 2022	Sreenidhi Inst. of Science & Tech, Hyderabad, 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	webinar	Software tools for scientific research with emphasis on drafting documents using latex	30/09/2022	30/09/2022	Potti Sriramulu Chalavadi Mallikarjuna Rao College of Engineering & Technology
2	Dr. K. Hari Krishna	FDP	Recent advances in cyber physical power system and smart grid	08/05/2023	13/05/2023	ANURAG University
3	Dr. L. Shanmukh arao	STTP	Design, implementation and control of electrical systems using MATLAB	03/01/2023	07/01/2023	Bapatla Engineering College
4	Dr. G. Kishor Babu	STTP	Design, implementation and control of electrical systems using MATLAB	03/01/2023	07/01/2023	Bapatla Engineering College
5	Dr.P.P. Sharma	FDP	Advanced technologies in electrical engineering research	01/08/2022	05/08/2022	Sai Ram Institute of Technology
6	Mr. R. Subbareddy	FDP	Advanced technologies in electrical engineering research	01/08/2022	05/08/2022	Sai Ram Institute of Technology
7	Mr.M.V.N. Murthy	FDP	Recent advances in cyber physical power system and smart grid	08/05/2023	13/05/2023	ANURAG University
8	Mr.V. Rajesh	FDP	Advanced technologies in electrical engineering research	01/08/2022	05/08/2022	Sai Ram Institute of Technology
9	Mr.P. Venubabu	webinar	Software tools for scientific research with emphasis on	30/09/2022	30/09/2022	Potti Sriramulu Chalavadi Mallikarjuna Rao College of

			drafting documents using latex			Engineering & Technology
10	Mr.P. Venubabu	Workshop	How to get the most out of being a reviewer of scientific articles	10/08/2022	10/08/2022	ELSEVIER
11	Mr.M. Ranjith Kumar	FDP	Advanced technologies in electrical engineering research	01/08/2022	05/08/2022	Sai Ram Institute of Technology
12	Mr..M. Ranjith Kumar	webinar	Software tools for scientific research with emphasis on drafting documents using latex	30/09/2022	30/09/2022	Potti Sriramulu Chalavadi Mallikarjuna Rao College of Engineering & Technology
13	Mr.M. Ranjith Kumar	FDP	Recent advances in cyber physical power system and smart grid	08/05/2023	13/05/2023	ANURAG University
14	Mr.M. Ranjith Kumar	Workshop	How to get the most out of being a reviewer of scientific articles	10/08/2022	10/08/2022	ELSEVIER
15	Mr.M. Ranjith Kumar	Workshop	Face challenges on future technologies	23/12/2022	23/12/2022	R.V.R&J.C
16	Mr.M. Ranjith Kumar	Workshop	Recent trends and challenges in power system transition	28/03/2023	29/03/2023	Dr.YSR A.N.U College of Engineering & Technology
17	Mrs. P. Kavitha	FDP	Recent advances in cyber physical power system and smart grid	08/05/2023	13/05/2023	ANURAG University
18	Mr.K.Nagaraju	FDP	Recent advances in cyber physical power system and smart grid	08/05/2023	13/05/2023	ANURAG University

19	Mr. D. Sambhasiva Rao	STTP	Design, implementation and control of electrical systems using MATLAB	03/01/2023	07/01/2023	Bapatla Engineering College
20	Mrs. P. Naga divya	FDP	Recent advances in cyber physical power system and smart grid	08/05/2023	13/05/2023	ANURAG University
21	Mrs. SK. Kousar Sana	Workshop	How to get the most out of being a reviewer of scientific articles	10/08/2022	10/08/2022	ELSEVIER
22	Mrs. P. Naga Jyothi	Workshop	Face challenges on future technologies	23/12/2022	23/12/2022	R.V.R&J.C
23	Dr. M. S. Naik	Workshop	Recent trends and challenges in power system transition	28/03/2023	29/03/2023	Dr.YSR A.N.U College of Engineering & Technology
24	Mr. D. Sambhasiva Rao	Workshop	Innovation entrepreneurship and start-up for young	26/09/2022	30/09/2022	National institute of technology, Mizoram

➤ **Student workshops and guest lecturers:**

S. No	Name of the Event Organized	Event Type	Date	Resource Person with Affiliation	Remarks
1	One week workshop on "SCADA Training" in association with APSSDC	Workshop	02.01.2023 TO 07.01.2023	Mr. B. Mahidhar, Trainer, APSSDC, Vijayawada, Andhra Pradesh	
2	"Nationwide Placement Success: Tips and Techniques"	Awareness Session	19-02-2023	Mr. N. Venkata Reddy, CEO, Techteam Solutions	
3	"The Career Shift: Preparing for Corporate Excellence"	Awareness Session	16-03-2023	P. Uday Teja, Software Engineer, HCL	
4	"Career Opportunities in Synechron"	Career Talk	27-05-2023	Ranjana Sagar, Associate Director(Recruitment), Synechron	

➤ **Tech news:**

Key Global / AI / Tech Highlights (Jan-Mar 2023)

Date	What Happened	Significance / Why It Mattered
Feb 2023	Google announced <i>Bard</i> , its conversational AI chatbot (powered by LaMDA), to compete with ChatGPT. Goodreturns+3The Guardian+3Business Standard+3	Signaled how big tech responded quickly after public interest in generative AI spiked (via ChatGPT). It showed AI chatbots were becoming mainstream-visible.
Mar 14, 2023	OpenAI released GPT-4. Wikipedia+2AiCoin+2	GPT-4 introduced stronger reasoning and multimodal inputs, raising the bar for what large language models could do. Many new applications began being built on GPT-4.
Mar 21, 2023	Google officially made Bard available to a limited public in the U.S. & U.K. as an AI chatbot product. Forbes+2aiwire.net+2	Marked the public release of yet another major player in the AI assistant / chatbot space, increasing competition. This also raised public awareness and concern around AI reliability, safety, and misinformation.
Feb-Mar 2023 (India)	In India's Union Budget 2023, there were multiple technology-sector-friendly announcements: • Plans to establish 3 Centres of Excellence (CoE) for AI in top engineering / academic institutions. Moneycontrol+1 • Proposal for a national data governance policy (sharing of anonymised data) was announced. TheQuint+1 • A scheme to set up ~100 labs in engineering institutions for applications of 5G in areas like precision agriculture, transport, etc. Moneycontrol	These moves show India's ambition to build capacity in emerging tech, strengthen R&D, create workforce readiness, and frame data / regulation policy. They lay groundwork for longer-term competitiveness in AI / digital tech.

Other Notable Developments

- Meta released LLaMA (Large Language Model Meta AI) with multiple model sizes (7B, 13B, 65B etc.) in March 2023. It was intended for research use, under non-commercial licensing in many cases. Medium+2AiCoin+2
 - Growing discussions & academic work on regulating generative AI, ethics, safety, hallucination, bias etc. Papers like “*Regulating ChatGPT and other Large Generative AI Models*” came out. arXiv
 - Technologies/ML tools for speech, multilingual AI were also being developed / talked about: for example projects around speech models (Google etc.), though many of these were in research or preview. Medium+1
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Trends & Implications

- Rapid competition in generative AI: With ChatGPT capturing attention late 2022, early 2023 saw others very quickly releasing or accelerating similar tools (Google’s Bard, Meta’s models, etc.).
- Multimodal & capability expansion: Not just text-AI but inputs/outputs in images, possibly speech; models with more reasoning, better safety features.
- Policy, regulation & data governance becoming more visible parts of the conversation. Governments are beginning to allocate budget and plan regulatory frameworks for AI, data sharing, governance and infrastructure.
- Research & openness: Models like LLaMA, and open-source tools are helping make research more accessible beyond just the largest labs / companies. But licensing, usage restrictions remain a concern.
- Emphasis on capacity building: Education, labs, centers of excellence, skilling programs feature in policy moves—signs of preparing the workforce and institutions for technology acceleration rather than just reactive.