

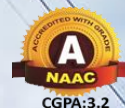


KALLAM HARAMADHAREDDY INSTITUTE OF TECHNOLOGY

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

APRIL 2K23-JUNE 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 Highlights (Apr-Jun 2023)

1. OpenAI Releases GPT-4

- OpenAI launched GPT-4 in March 2023 with more advanced reasoning, and it remained one of the biggest stories through Q2. It enabled multimodal inputs (images + text) and sharper performance on many benchmarks. Analytics Vidhya+2Digitopia+2

2. Apple Vision Pro & Immersive Devices

- In June 2023, Apple unveiled *Vision Pro*, a mixed-reality / augmented reality headset, pushing forward immersive computing. Analytics Vidhya

3. Autonomous AI Agents, GenAI Tools Rise

- April 2023 saw traction for AI agents (AutoGPT, BabyAGI etc.), tools that try to automate multi-step tasks. Also, growing interest in generative AI for images, code, content creation. Everyapixel Journal+1

4. Huawei Huge Model — PanGu- Σ

- Huawei released *PanGu- Σ* in April 2023: a very large model (~1.085 trillion parameters) with multilingual & multi-task capabilities. Wikipedia

5. AI Governance & Policy Movements

- India in April 2023 officially stated that it does not intend to regulate the growth of AI (i.e. no broad sweeping law for AI at that time), seeing AI as a “strategic area” for growth. TechCrunch+2India Briefing+2
- Related: committees were being formed, draft data governance / digital India / ethical AI frameworks under work. India Briefing+1

6. India Data Science / AI Skill / Startup Ecosystem

- NASSCOM report: AI spending in India was about \$3 billion in 2022, with projections to rise to about \$4.2 billion by 2024. Also multiple AI / data science startups emerging in that period. Cigniti Technologies

7. Standardization & Telecom / 5G-Advanced AI

- Research & standardization around applying AI in telecom, especially upcoming 5G-Advanced (3GPP Release-18) included AI/ML features, enhanced networks etc. arXiv

India-Specific Highlights (Apr-Jun 2023)

- Policy stance: In April, India's Ministry of Electronics & IT made clear that India was *not* planning immediate regulation of AI, preferring to watch, build capacity, and support innovation first. TechCrunch+1
 - Data Governance / Digital India Frameworks: Work on the draft National Data Governance Framework Policy and updating guidelines for intervening digital / intermediary platforms. India Briefing+1
 - Standards & Ethics: Committees set up for AI standards, ethical AI, with emphasis on transparency, fairness. India Briefing+1
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Trends & Implications

- AI models were getting bigger, more capable, multimodal, and moving faster: huge parameter models, more tasks, broader input types.
- But also a counter-trend: emphasis on controls, ethics, governance, especially as more AI enters public life. India's cautious approach, global concern about mis-/disinformation, regulation.
- Generative AI, AI agents, and tools that automate tasks saw rapid interest and usage.
- Infrastructure and skills are bottlenecks: countries and companies are investing in data, compute, talent, and trying to build an ecosystem.