

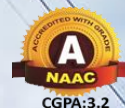


KALLAM HARAMADHAREDDY INSTITUTE OF TECHNOLOGY

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

CHOWDAVARAM (POST), GUNTUR, ANDHRA PRADESH-522019

Website: www.khitguntur.ac.in e-Mail: kae1guntur@gmail.com Phone
No: 0863-2272346



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QUATERLY- NEWSLETTER

JULY 2K22-SEPTEMBER 2K22

**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, HOD, EEE

Editors:

Dr. K. Hari Krishna, 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	198X1A0208	Goddanti Amulya	Paper Presentation	Engineers Day , 14 Th Sep 2022	Potti Sriramulu Chalavadi Mallikarjuna Rao College of Engineering & Technology	3 rd Prize	State – within
2	198X1A0227	Thammisetty Gopi	Paper Presentation	Sparks Intelligentia 2022, 16-03-2023 To 19-03-2022	Malla Reddy Engineering College,	Participation	State – outside
3	208X5A0201	Ajay Babu Neelam	Technical Quiz	Sparks Intelligentia 2022, 16-03-2023 To 19-03-2022	Malla Reddy Engineering College	Participation	State – outside
4	208X5A0212	Sakila Venkata Sakethnath	Paper Presentation	Engineers Day , 14 Th Sep 2022	Potti Sriramulu Chalavadi Mallikarjuna Rao College of Engineering & Technology	3 rd Prize	State – within
5	208X1A0220	Marri Triveni	Paper Presentation	Engineers Day , 14 Th Sep 2022	Potti Sriramulu Chalavadi Mallikarjuna Rao College of Engineering & Technology	Participation	State – within
6	208X1A0227	Nimmala Naveen	Paper Presentation	Engineers Day , 14 Th Sep 2022	Potti Sriramulu Chalavadi Mallikarjuna	Participation	State – within

					Rao College of Engineering & Technology		
7	218X5A0204	Kollipaka John Deva Prabhudas	Technical Quiz	Engineers Day , 14 Th Sep 2022	Potti Sriramulu Chalavadi Mallikarjuna Rao College of Engineering & Technology	Participation	State – within
8	218X1A0204	Gaddam Kavitha	Paper Presentation	Engineers Day , 14 Th Sep 2022	Potti Sriramulu Chalavadi Mallikarjuna Rao College of Engineering & Technology	Participation	State – within
9	218X1A0208	Jaswanth Guntupalli	Technical Quiz	Engineers Day , 14 Th Sep 2022	Potti Sriramulu Chalavadi Mallikarjuna Rao College of Engineering & Technology	Participation	State – within
10	228X5A0205	Gangavarapu Sangeetha	Technical Quiz	Engineers Day , 14 Th Sep 2022	Potti Sriramulu Chalavadi Mallikarjuna Rao College of Engineering & Technology	Participation	State – within
11	228X5A0208	Induri Venkatesh	Paper Presentation	Engineers Day , 14 Th Sep 2022	Potti Sriramulu Chalavadi Mallikarjuna Rao College of Engineering	Participation	State – within

					& Technology		
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 / STTP	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. Shanmukharao	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	08/05/2023	13/05/2023	ANURAG University

			power system and smart grid			
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 drafting documents using latex	30/09/2022	30/09/2022	Potti Sriramulu Chalavadi Mallikarjuna Rao College of Engineering &Technology
10	Mr.P. Venubabu	Worksh op	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	Worksh op	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	Worksh op	Face challenges on future technologies	23/12/2022	23/12/2022	R.V.R&J.C
16	Mr.M. Ranjith Ku mar	Worksh op	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.Nagara ju	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	Worksh op	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	Worksh op	Face challenges on future technologies	23/12/2022	23/12/2022	R.V.R&J.C
23	Dr. M. S. Naik	Worksh op	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
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➤ **Student workshops and guest lecturers**

S. No	Name of the Event Organized	Event Type	Date	Resource Person with Affiliation
1	A Three Day Workshop-2024 “PCB Design” in association with APSSDC	Workshop	12.09.2022 TO 17.09.2022	Mr. B. Mahidhar, Trainer, APSSDC, Vijayawada, Andhra Pradesh
2	Guest Lecture on “Electrical Traction”	Guest Lecture	8.07.2022	Dr. CH. Nagaraja Kumari, Professor, Guru Nanak Institute of Technology, Hyderabad
3	“Celonis Skilling Trends Trajectories and Career Opportunity in Infosys”	Career Talk	22-07-2022	1 Ngoc Anh Ngo, Academic Alliance Manager, Celonis 2 Hodson Mc Farland, Associate Client Engagement Manager, Infosys
4	“Career Opportunities with Juniper Networks”	Career Talk	01-08-2022	Pawan Mellacheruvu, Technical Training Consultant, Juniper Networks
5	“Salesforce Internship & Future Skills Prime”	Awareness Session	12-08-2022	Satish Datla Deputy Director NASSCOM – Futureskills prime
6	“Cyber Security Awareness Programme on Countering Cyber Attacks & Cyber Frauds”	Awareness Session	07-09-2022	Mr. Vedant Narayan CERT-In, Delhi
7	"Winning Tactics for Placement Exams Across India"	Awareness Session	23-10-2022	Mr. V. Sreenivasa Reddy, Senior Recruitment Manager and Location Head, Vijayawada, Tech Mahindra Ltd.
8	"Navigating the Path: Classroom Lessons to Corporate Success"	Awareness Session	15-07-2022	Amit Saha, Deputy Director ExceLR, Bangalore

➤ **Tech news:**

Global Highlights (Jul-Sep 2022)

Category	What Happened	Why It Mattered
AI / ML / Model Releases & Research	In September, <i>Laion AI</i> released a state-of-the-art open-source CLIP model for vision-language tasks, enabling stronger zero-shot image classification and other multimodal capabilities.	These advances pushed forward generative & multimodal AI, expanding where and how people could use such tools—as creators, artists, researchers. Open-source availability helped democratize access.
	<i>BlenderBot 3</i> (175B parameters) was introduced: a conversational agent with long-term memory, internet access, safety features; weights & code made public. arXiv	
	<i>Stable Diffusion 1.0</i> release (in August 2022); generative text-to-image models gained wider adoption as creative tools. Wikipedia	
Corporate / Investment Activity	In July, European tech startup ecosystem raised ~€9.5 billion across ~403 deals; fintech led but was down from June. Tech.eu	Shows that even mid-2022, investor interest in AI / ML / deep tech was strong, but macro pressures (inflation, supply chain) starting to bite.
	Tech companies were increasingly acquiring or investing in AI / infrastructure tools to capture gains in cloud, ML ops, similar domains. (Reports of alliances, funding rounds across deep tech) — multiple smaller deals and exits observed. Tech.eu	
Regulation & Policy Moves	In India, there were plans to introduce regulations that would require large tech platforms (Google, Facebook, etc.) to share ad-revenue with publishers whose content they display or embed.	Indicates governments beginning to grapple with fairness & power in digital platforms, and trying to support deep tech ecosystems via policy frameworks.
	<i>Draft National Deep Tech Startup Policy</i> (NDTSP) was released for public consultation (deadline Sept 15, 2022) to address funding,	

Category	What Happened	Why It Mattered
Product & Feature Release / Consumer Tech	infrastructure, IP, regulations specific to deep tech startups in India. ETGovernment.com	
	• Google announced improvements in real-time	
	translation in Lens (removing bars over original text, more seamless UI) in September. Mind Benders Club	These enhancements make AI features more usable in everyday life, especially in multilingual or bandwidth-constrained regions. Also, focus on infrastructure model optimization is an early sign of tradeoffs between power, latency, cost.
	• Introduction and wide adoption of voice codecs like <i>Lyra V2</i> (Google) for efficient speech compression and recognition in low bandwidth / low power contexts. Mind Benders Club	

IN India-Specific Developments

- The Indian government deliberated legislation that would force big tech platforms to share ad / content revenue with Indian news publishers. This reflects concerns over ad revenue flows, content monetization, and platform accountability. The Tech Outlook
- Deep tech startup policy: the *Draft National Deep Tech Startup Policy* was released for consultation late July / August, soliciting feedback till mid-September. The aim was to address deep tech’s unique challenges (capital, IP, infrastructure etc.). ETGovernment.com

Trends & Implications

- Rise of Multimodal & Generative AI: Stable Diffusion, CLIP, and conversational agents like BlenderBot show tools moving past pure text into image, video, context, memory. This broadens use cases (art, design, content creation, chatbots) and pushes for more computational and ethical oversight.
- Increasing Openness & Democratization: Many models & datasets were released open source, making research / product development more accessible beyond large corporations. This fosters innovation but also raises concerns around misuse, bias, content safety.

- Policy catching up: Governments are starting to address power dynamics in digital platforms (revenue sharing, content, IP), especially in countries like India where content ecosystem, news media, publishers are impacted.
- Efficiency & Infrastructure focus: Voice codecs, real-time ML inference, optimizations suggest emphasis not just on making AI smarter, but making it work well in constrained environments—power, latency, privacy.