



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: khitguntur@gmail.com Phone
No. 0863-2272245



EEE-IMPACT QUARTERLY- NEWSLETTER

JANUARY 2K24-MARCH 2K24

Department of Electrical and
Electronics Engineering

INSIDE THIS ISSUE:

- **About College**
- **Department Vision**
- **Department Mission**
- **Editorial Board**
- **Student Achievements**
- **Faculty Achievements**
- **Student workshops and guest lecturers**
- **Tech news**

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:

SK. Khadar Basha (IV-EEE),

Koppolu Mahesh (III-EEE).

Gaddam Shankari (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	208X1A0202	Bathula Sri Manikanta	Paper Presentation	Explorers Meet-2k24, 6 & 7 March 2024	SRK Institute of Technology	Participation	State – within
2	208X1A0209	Chirra Mounika	Paper Presentation	Explorers Meet-2k24, 6 & 7 March 2024	SRK Institute of Technology	2 nd Prize	State – within
3	208X1A0211	Gajula Srilakshmi	Paper Presentation	Aagama2024, 16 Th March 2024	MIC College of Technology	Participation	State – within
4	208X1A0228	Onteddu Hari Priya	Paper Presentation	Explorers Meet-2k24, 6 & 7 March 2024	SRK Institute of Technology	Participation	State – within
5	208X1A0236	Shaik Sameer Basha	Paper Presentation	Aagama2024, 16 Th March 2024	MIC College of Technology	1 st Prize	State – within
6	218X5A0202	Jinkala Pavan Kalyan	Paper Presentation	Explorers Meet-2k24, 6 & 7 March 2024	SRK Institute of Technology	2 nd Prize	State – within
7	218X5A0209	Sesham Uma Maheswara Rao	Paper Presentation	Aagama2024, 16 Th March 2024	MIC College of Technology	Participation	State – within
8	218X1A0205	Gopu Trinadh	Paper Presentation	Explorers Meet-2k24, 6 & 7 March 2024	SRK Institute of Technology	Participation	State – within
9	218X1A0209	Kalisetty Prem Chand	Technical Quiz	Explorers Meet-2k24, 6 & 7 March 2024	SRK Institute of Technology	Participation	State – within
10	218X1A0215	Parimi Sudhakar	Paper Presentation	Aagama2024, 16 Th March 2024	MIC College of Technology	Participation	State – within
11	218X1A0223	Veerisetty Thilak Kumar	Technical Quiz	Explorers Meet-2k24, 6	SRK Institute of Technology	3 rd Prize	State – within

				& 7 March 2024			
12	228X5A0207	Gollapalli Uma Manikanta	Paper Present ation	Aagama2024, 16 Th March 2024	MIC College of Technology	1 st Prize	State – within
13	228X5A0211	Kakumanu Pradeep Kumar	Technic al Quiz	Explorers Meet-2k24, 6 & 7 March 2024	SRK Institute of Technology	Particip ation	State – within
14	228X5A0217	Marella Rohit	Technic al Quiz	Aagama2024, 16 Th March 2024	MIC College of Technology	Particip ation	State – within
15	228X5A0227	Saikam Yaswanth Varma	Technic al Quiz	Explorers Meet-2k24, 6 & 7 March 2024	SRK Institute of Technology	Particip ation	State – within
16	228X5A0231	Vankayalpati Bala Raju	Technic al Quiz	Aagama2024, 16 Th March 2024	MIC College of Technology	3 rd Prize	State – within
17	228X1A0205	Andugulapati Prasanna	Paper Present ation	Aagama2024, 16 Th March 2024	MIC College of Technology	Particip ation	State – within
18	228X1A0210	Dudekula Roshan Basha	Technic al Quiz	Explorers Meet-2k24, 6 & 7 March 2024	SRK Institute of Technology	3 rd Prize	State – within
19	228X1A0224	Vadithe Nagaraju Naik	Paper Present ation	Aagama2024, 16 Th March 2024	MIC College of Technology	Particip ation	State – within
20	238X5A0201	Aratipamula Venkata Srinivasarao	Technic al Quiz	Aagama2024, 16 Th March 2024	MIC College of Technology	Particip ation	State – within
21	238X5A0209	Paramkusam Vijay Karthik	Technic al Quiz	Aagama2024, 16 Th March 2024	MIC College of Technology	3 rd Prize	State – within
22	238X5A0222	Sidde Lakshmi Venkata Bhupal	Technic al Quiz	Aagama2024, 16 Th March 2024	MIC College of Technology	Particip ation	State – within
23	238X5A0224	Danaboina Devanand Raju	Paper Present ation	Aagama2024, 16 Th March 2024	MIC College of Technology	Particip ation	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
1	Dr. K. Hari Krishna	Transformer-less ANN-Controlled STATCOM-based Power quality improvement for three phase DC-AC Boost inverter in grid-connected solar photovoltaic Systems	International Journal of Electrical and Electronics Engineering	NOV 2023	ISSN: 2348-8379	SCOUPS
2	Dr. K. Hari Krishna	An intelligent based DC series electric springs in DC micro grids	International Journal of Intelligent Systems and Applications in Engineering	JAN 2024	ISSN: 2147-6799	SCOUPS
3	Dr. L. Shanmukha Rao	Analysis of a novel soft switching bidirectional DC-DC Converter for electric vehicle	International Journal of Applied Power Engineering	OCT 2023	ISSN: 2302-9285	SCOUPS
4	Dr. L. Shanmukha Rao	Performance evaluation of solar-PV integrated hybrid fuzzy Logic controlled multi-functional UPQC for enhancing PQ features	International Journal of Applied Power Engineering	JUNE 2024	ISSN: 2252-8792	SCOUPS
5	Dr. L. Shanmukha Rao	A novel hybrid-fuzzy logic based UVC technique for Solar-PV/Grid integrated water-pumping system	International Journal of Applied Power Engineering	JUNE 2024	ISSN: 2252-8792	SCOUPS
6	Dr. L. Shanmukha Rao	Performance evaluation of novel 9-level RSMLI topology for Grid-tied solar-PV system	International Journal of Applied Power Engineering	JUNE 2024	ISSN: 2252-8792	SCOUPS

7	Dr. L. Shanmukha Rao	A novel solar PV integrated fuzzy-logic controlled UAPQC Device for power quality enhancement	International Journal of Advances in Applied Sciences	MARCH 2024	ISSN: 2252-8814	SCOU S
8	Dr. L. Shanmukha Rao	A novel fuzzy-logic controller - MDSUPQC topology for power quality improvement in multi-feeder distribution system	International Journal of Advances in Applied Sciences	MARCH 2024	ISSN: 2252-8814	SCOU S
9	Dr. L. Shanmukha Rao	A novel 7-level reduced-switch MLI topology fed PMSM drive for electric vehicle system	Indonesian Journal of Electrical Engineering and Computer Science	FEB 2024	ISSN: 2502-4752	SCOU S
10	Dr. L. Shanmukha Rao	A novel SIMIDCBC topology driven PMSM for PEV application	International Journal of Applied Power Engineering	MARCH 2024	ISSN: 2252-8792	SCOU S
11	Dr. L. Shanmukha Rao	Mitigation of PQ issues in EV charging station connected distribution system using novel RSMLI - based shunt APF	International Journal of Advances in Applied Sciences	DEC 2023	ISSN: 2252-8814	SCOU S
12	Dr. G. Kishor Babu	Analysis of a bi-directional power Converter of electric vehicle	Journal of systems engineering and electronics	DEC 2023	ISSN: 1671-1793	SCI
13	Dr. P. P. Sharma	A novel fuzzy-logic controller-MDSUPQC topology for power quality improvement in multi-feeder distribution system	International Journal of Advances in Applied Sciences	MARCH 2024	ISSN: 2252-8814	SCOU S
14	Dr. P. P. Sharma	A novel solar PV integrated fuzzy-logic controlled UAPQC device for power quality enhancement	International Journal of Advances in Applied Sciences	MARCH 2024	ISSN: 2252-8814	SCOU S

15	Dr. P. P. Sharma	Performance evaluation of novel 9-level RSMLI topology for Grid-tied solar-PV system	International Journal of Applied Power Engineering	JUNE 2024	ISSN: 2252-8792	SCOUP S
16	Dr. P. P. Sharma	A novel hybrid-fuzzy logic based UVC technique for Solar-PV/grid integrated water-pumping system	International Journal of Applied Power Engineering	JUNE 2024	ISSN: 2252-8792	SCOUP S
17	Dr. P. P. Sharma	Performance evaluation of solar-PV, integrated hybrid fuzzy Logic controlled multi-functional UPQC for enhancing PQ features	International Journal of Applied Power Engineering	JUNE 2024	ISSN: 2252-8792	SCOUP S
18	Mr. M. V. N. Murthy	Performance evaluation of solar-PV integrated hybrid fuzzy Logic controlled multi-functional UPQC for enhancing PQ features	International Journal of Applied Power Engineering	JUNE 2024	ISSN: 2252-8792	SCOUP S
19	Mr. M. V. N. Murthy	Mitigation of PQ issues in EV charging station connected Distribution system using novel RSMLI-based shunt APF	International Journal of Advances in Applied Sciences	DEC 2023	ISSN: 2252-8814	SCOUP S
20	Mr.M. Ranjith Kumar	Mitigation of PQ issues in EV charging station connected Distribution system using novel RSMLI-based shunt APF	International Journal of Advances in Applied Sciences	DEC 2023	ISSN: 2252-8814	SCOUP S
21	Mr. M. Ranjith Kumar	A novel hybrid-fuzzy logic based UVC technique for Solar-PV/grid integrated water-pumping system	International Journal of Applied Power Engineering	JUNE 2024	ISSN: 2252-8792	SCOUP S

• **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	FDP	AI Techniques in electrical system	15/04/2024	20/04/2024	Bapatla Engineering College
2	Dr. K. Hari Krishna	STTP	Electrical CAD Design	26/06/2023	01/07/2023	Bapatla Engineering College
3	Dr. L. Shanmukharao	FDP	Advancements in aerospace materials: manufacturing, testing and characterization 2.0	11/03/2024	15/03/2024	Hindustan College of Engineering and Technology
4	Dr. G. Kishor babu	FDP	NSQF Aligned Skill Development	19/02/2024	23/02/2024	Narasaraopet Engineering College
5	Dr. G. Kishor babu	FDP	Advancements in aerospace materials: manufacturing, testing and characterization 2.0	11/03/2024	15/03/2024	Hindustan College of Engineering and Technology
6	Dr.P.P. Sharma	FDP	NSQF Aligned Skill Development	19/02/2024	23/02/2024	Narasaraopet Engineering College
7	Mr. R. Subbareddy	STTP	Electrical CAD Design	26/06/2023	01/07/2023	Bapatla Engineering College
8	Mr. M.V.N.Murthy	FDP	Advancements in aerospace materials: manufacturing, testing and characterization 2.0	11/03/2024	15/03/2024	Hindustan College of Engineering and Technology
9	Mr.V. Rajesh	FDP	Advancements in aerospace materials: manufacturing, testing and characterization 2.0	11/03/2024	15/03/2024	Hindustan College of Engineering and Technology
10	Mr.P. Venubabu	FDP	NSQF Aligned Skill Development	19/02/2024	23/02/2024	Narasaraopet

						Engineering College
11	Mr.M. Ranjith Kumar	FDP	Advancements in aerospace materials: manufacturing, testing and characterization 2.0	11/03/2024	15/03/2024	Hindustan College of Engineering and Technology
12	Mrs. P. Kavitha	FDP	NSQF Aligned Skill Development	19/02/2024	23/02/2024	Narasaraopet Engineering College
13	Mr.J. Sunil babu	FDP	NSQF Aligned Skill Development	19/02/2024	23/02/2024	Narasaraopet Engineering College
14	Mrs. P. Naga divya	FDP	NSQF Aligned Skill Development	19/02/2024	23/02/2024	Narasaraopet Engineering College
15	Mr. D. Sambhasiva Rao	FDP	Advancements in aerospace materials: manufacturing, testing and characterization 2.0	11/03/2024	15/03/2024	Hindustan College of Engineering and Technology
16	Mrs. P. Nagajyothi	FDP	NSQF Aligned Skill Development	19/02/2024	23/02/2024	Narasaraopet Engineering College
17	Dr. M. S. Naik	FDP	Advancements in aerospace materials: manufacturing, testing and characterization 2.0	11/03/2024	15/03/2024	Hindustan College of Engineering and Technology
18	Mr. K. Gopi Krishna	FDP	NSQF Aligned Skill Development	19/02/2024	23/02/2024	Narasaraopet Engineering College

➤ **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	23.01.2024 to 25.01.2024	Mr. B. Mahidhar, Trainer, APSSDC, Vijayawada, Andhra Pradesh
2	A Three Day Workshop-2024 “PCB Design”in association with APSSDC	Workshop	08.01.2024 to 10.01.2024	Mr. B. Mahidhar, Trainer, APSSDC, Vijayawada, Andhra Pradesh
3	"The Career Shift: Preparing for Corporate Excellence"	Awareness Session	03-02-2024	Abhishek Doijode, Campus Hiring, University relations, Virtusa
4	“Shaping Your Future in Cloud Technology”	Career Talk	10-02-2024	Shubam Nigam, Associate Principal Engineer, Nagarro
5	"Unlocking Potential: Transitioning Smoothly to the Corporate Sphere"	Awareness Session	15-02-2024	N. Vasishta, Data Engineer, Hexaware Private Ltd
6	“ Career in Technical Writing”	Career Talk	24-02-2024	Siddarth Aggarwal, Head of Information Development, NEWGEN
7	“Empowering Women in Tech: Inside AWS Data Centers in India”	Webinar	03-04-2024	Amazon Web Services
8	“Career in Cloud Technologies”	Webinar	27-04-2024	Samir Pradhan, Senior Technical Architect, VIAPLUS
9	“Future Proof Your Engineering Career with AI and Generative AI”	Career Talk	15-05-2024	Kiran Chandaka, Vice President, State Street
10	“Careers in Data Analytics Process Automation”	Career Talk	16-05-2024	Dhaval Doshi, Assistant Vice President, JP Morgan Chase&Co

11	“Career Opportunities in Robotics Process Automation”	Career Talk	31-05-2024	Pramit Mall, Senior Technology Specialist, Tesco
----	---	-------------	------------	--

➤ **Tech news:**

Global & International Highlights (Jan-Mar 2024)

1. UN AI Resolution

On *March 21, 2024*, the United Nations General Assembly adopted a landmark resolution aimed at promoting “safe, secure, and trustworthy” artificial intelligence systems, emphasizing human rights, data protection, and sustainable development. Reuters+2UNITE+2

2. Tech Accord on Elections / Deceptive AI Content

In March 2024, major tech players (Adobe, Amazon, Google, Microsoft, Meta, OpenAI, among others) signed a “Tech Accord to Combat Deceptive Use of AI in 2024 Elections,” pledging to collaborate on detecting misleading AI-generated content, improving transparency, and enhancing public awareness. Global Compliance News

3. Google DeepMind’s Gemma Models

In February 2024, Google DeepMind released “Gemma” — a family of open-source large language models (LLMs), initially with two sizes (2B and 7B parameters). The Gemma models were meant to be more lightweight than its Gemini line but usable for research / application with fewer resources. Wikipedia

4. Patent Practice & IP Reform in India

- The Patents (Amendment) Rules, 2024 were notified around March 2024. Key changes: faster timeline for examination request, simplified compliance (for example, reducing frequency of “working statements” filings), more flexibility / discretionary powers for controllers, incentives like renewal fee discounts for early electronic payments. Business Standard

5. IndiaAI Mission / AI Policy Moves

- On 7 March 2024, the Indian Cabinet approved the IndiaAI Mission, a large-scale, national level initiative with a budget outlay $\approx$ ₹10,371.92 crore. It aims to support indigenous AI capabilities including compute infrastructure (public compute of 10,000+ GPUs), datasets, innovation, startup financing, ethical & safe AI. www.narendramodi.in
- Under that mission various pillars were established: IndiaAI Compute, IndiaAI Datasets Platform, Safe & Trusted AI, etc. Principal Scientific Adviser+2www.narendramodi.in+2

6. AI Skilling & Infrastructure

- India allocated in the Union Budget 2024-25 (just after this period) funds for the IndiaAI Mission. While the bulk of execution kicks in later, the framework for AI skilling, datasets, compute etc were laid out. IndiaAI
 - Other global developments included growing concern / efforts around AI misuse, ethics, content moderation, election integrity etc. (e.g. Tech Accord above)
-

India-Specific Highlights

- IndiaAI Mission (March 2024): As above, approval for a comprehensive national AI mission with budget and pillars. www.narendramodi.in
 - Regulation of Patents: The Patents (Amendment) Rules, 2024 in India sought to speed up processes, reduce compliance burden, align better with global norms. Business Standard
 - Drafting AI Regulation Framework: Around February, reports said that India aims to draft an AI regulation framework by June-July 2024, per statements by Rajeev Chandrasekhar. Reddit
-

Trends & Implications from Q1 2024

- Global cooperation on AI governance was increasing (UN resolution, election content accords), indicating regulation is becoming a more central part of the AI conversation, not just technical innovation.
- Push for lighter / open models (e.g. Gemma) — a recognition that not all innovation happens with huge parameter counts; efficiency, openness, and applicability matter.
- India anchoring policy & investment to catch up / compete: nation-level mission, funding, ethics / safety, capacity building, data infrastructure.
- Ethics, risk, elections, rights are not “nice-to-have” risks but are being addressed more formally by governments and industry.