



# Current News-EEE

DEPARTMENT OF

ELECTRICAL AND ELECTRONICS ENGINEERING

Vol 4: JULY 2024



Dr. VSK Reddy., Director  
B.Tech, M.Tech, Ph.D (IITKGP),  
FIETE, MIEEE, MISTE, MCSI, MHE-  
UK

## Director's Message

I deem to honor the faculty and student members of Emerging Technologies for their constructive and continuous work of the newsletter "current news EEE". The open access newsletter highlights the creative skills and talents of students, encouraging them to develop further. I wish them all success and advance higher.

## Principal's Message



Dr. S Srinivasa Rao,  
Principal B.Tech, M.Tech,  
Ph.D (JNTUH), MIEEE,  
MISTE, MIETE

It gives me immense pleasure to forward my message to the Newsletter brought up by the Department of EEE. As stated in the Bhagavad Gita, the knower (student), the knowing (teacher) and the known (knowledge) constitute the trine stimulus to action. To create right action, teachers and students must work together on the battleground of values. Our aim is to empower our students to become global citizens by providing them a roadmap to opportunity for a better life through developing their potential. Education is and always will be a challenging enterprise, especially in the current situation of the global pandemic, but I am confident that the Department of Emerging Technologies can overcome every challenge and help our students become self-aware, resilient and confident citizens prepared to take on the world and win!

## About Malla Reddy College of Engineering & Technology

Malla Reddy College of Engineering & Technology (MRCET) is a constituent College of Malla Reddy Group of Institutions (MRGI) established in 2004.

The College offers Engineering courses (B.Tech) in AE, CSE, CSE(AI&ML), CSE(CS), CSE(IoT), CSE(DS), AI&ML, AI&DS, ECE, EEE, IT, MECH discipline, and Post Graduate (M Tech) courses in

ECE, CSE, MECH and AE specializations in addition to MBA programs. The College campus with its arboriculture and horticulture is situated away from the hustle and bustle of the city and provides a serene atmosphere, which is conducive to both teaching and learning process.

### APPROVALS



- Approved by AICTE, Govt. of India, New Delhi.
- Autonomous Institution, UGC Govt Of India.
- Permanently Affiliated to JNTUH, Hyderabad.
- Accredited by NBA, New Delhi, India.
- Accredited by NAAC with A-GRADE, UGC, New Delhi.
- ISO 9001:2015 Certified Institution.
- Approved by Govt. of Telangana, India.
- UGC 2f & 12(B) recognized institution, New Delhi

## SPECIAL ACHIEVEMENTS

- Autonomous Institution, UGC, Govt. of INDIA. Accredited by NBA (Tier-1), AICTE, New Delhi
- IBM Centre of Excellence
- Accredited by NAAC-A Grade, UGC, Govt. of India
- ISO 9001:2015 Certified Institution.
- Research Centre Status, JNTUH, Hyderabad
- 2(f) & 12(B) Recognition, UGC, Govt. of India.
- MoU with NRDC, Govt. of India
- AICTE-MHRD Institution Innovation Council, Ministry of HRD, Govt. of India.
- Industry Institute Partnership Cell (IIPC).
- Recognition of Scientific Industrial Research Organizations (SIROs) by Govt. of India.
- CISCO International Certification Authorized Centre.
- Nodal Center: IIT - Bombay/Kharagpur for Technology Transfer
- NASSCOM Nodal Center for NAC - Test Assessment
- Business Incubation Centre - MSME, Govt. of India



## DEPARTMENT EVENTS

- Inter Institutional Start-UP competition
- Start-UP Ecosystem understanding and Engaging with the community.
- Hands on workshop on Electrical Switchgear And It's Applications
- Scaling your Start-UP strategies for sustainable growth
- Industrial Visit To Kakathiya Thermal Power Plant, Chelapur, Jayashankar Bhupalpally
- workshop on DATA STRUCTURES USING PYTHON
- Workshop On Machine Learning In Association With INTEL UNNATI.
- Innovation Showcase: Exhibition



Dr T Venugopal  
Dean Academics

## Dean's Message

I am very much obliged and delighted to congratulate the department of EEE for

continuing the journey of technological innovation in bringing the third edition of their flagship "e-Samachar", the ensemble of faculty and student achievements. I congratulate all the editors and co-editors of the newsletter for continuing the innovative journey. Happy to see so many innovative ideas, projects and prototypes by the students which resembles their well-being and progress in their career path.

## HoD EEE Message



Dr. M SHARANYA

I would like to give an immense appreciation to EEE team for their continuous involvement in the development of Current news EEE newsletter, headlining the accomplishments of the departmental activities. Technology progress has merely provided our students to get engrossed in projects suitable for the society. This digital document is an integral means of communication to the society that imprints students' intellectual ideas and achievements. It is being a very positive experience as the efforts are documented and reachable to all twice a year.

## Faculty Publications (2023-24)

**DR.M SHARANYA**  
PROFESSOR & HEAD-EEE

"Integrating hydro and wind resources for effective congestion management in a hybrid electricity market" Journal of Engineering and Applied Science, Oct-23, ISSN NO: 023-00310-9.

"performance analysis of switched reluctance motor by using closed loop current control technique" Journal Kejuruteraan, November, 2023, ISSN NO: 1393-1401

**DR.KARIMULLA P SK**  
ASSOCIATE PROFESSOR

"Novel approach for performance analysis of photovoltaic and wind hybrid energy system" International Conference on Materials for Energy Storage and Conservation, Sep-23, Print ISBN 978-981-99-2869-9 Online ISBN 978-981-99-2870-5

"15-level multilevel inverter with NLMS-based IVCIMD for TFD reduction" International Conference on Materials for Energy Storage and Conservation, Sep-23, Print ISBN 978-981-99-2869-9 Online ISBN 978-981-99-2870-5

**DR.MADHU MOHAN**  
ASSISTANT PROFESSOR

Predicting the strength properties of LWC using response surface, International Conference on Intelligent Manufacturing and Energy Sustainability, Nov, 2023, SIT, volume 372

Artificial Intelligence Role in Optimizing Electric Vehicle Charging Patterns, Reduce Costs, and Improve Overall Efficiency: A Review". Journal of Engineering, Management and Information Technology, March-2024 VOL.02, NO-03: 129-138

**MR.M KUMARA SWAMY**  
ASSISTANT PROFESSOR

Artificial Intelligence Role in Optimizing Electric Vehicle Charging Patterns, Reduce Costs, and Improve Overall Efficiency: A Review". Journal of Engineering, Management and Information Technology, March-2024 VOL.02, NO-03: 129-138

**MR.H RAMESH**  
ASSISTANT PROFESSOR

Renewable Energy System And Its Needs For Electrical Energy Storage System, International Journal of Engineering Applied Sciences and Technology, 2023, Aug-23 ISSN NO: 2455-2143 PAGES 183-191

## PARENT-TEACHER MEETING (PTM)





# CAMPUS RECRUITMENT TRAININGS



EEE

III EEE from 30 October to 04 November  
IV EEE from 4 June to 10 June 2023  
conducted by Logik works.

III EEE



IV EEE







## Department of Electrical and Electronics Engineering

### A Session on

## Startup Ecosystem: Understanding and Engaging with the Community

Prof. T. Satish Kumar  
Associate Professor  
Dept. of MBA

Date : 02.03.2024  
2:00PM onwards  
Venue: EEE Seminar Hall

**Dr. VSK Reddy**  
Director,  
MRCET

**Dr. S. Srinivasa Rao**  
Principal,  
MRCET

**Dr. T. Venugopal**  
Dean student welfare  
MRCET

**Dr. P H V . SeshaTalpa Sai**  
Prof. & Director (R&D)  
MRCET

**Dr. M. Sharanya**  
HOD, Dept. of EEE  
MRCET



## Session on Startup Ecosystem

### UNDERSTANDING AND ENGAGING WITH THE COMMUNITY

The session aims to inspire participants to think creatively and foster an environment conducive to startup ecosystem. Through interactive exercises, case studies, and discussions, participants will explore ways to generate and cultivate innovative ideas.



Instagram: <https://www.instagram.com/p/C4GZUG6PE3A/?igsh=ZDhQYXd4YTY1OGd1>

Twitter: [https://x.com/MRCET\\_official/status/1764697533572669673?t=W0YdV4h56qua4O2OUphlrw&s=08](https://x.com/MRCET_official/status/1764697533572669673?t=W0YdV4h56qua4O2OUphlrw&s=08)





# National ENERGY CONSERVATION DAY

14 DECEMBER  
2023  
THURSDAY



DEPARTMENT OF EEE





**Department of EEE has  
organized a ONE DAY  
INDUSTRIAL VISIT TO  
KAKATHIYA THERMAL  
POWER PLANT, CHELPUR,  
JAYASHANKAR  
BHUPALPALLY, 18-11-2023  
for III EEE Students.**



**MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY**

(Autonomous Institution UGC, Govt. of India)



**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**



INSTITUTION'S  
INNOVATION  
COUNCIL  
(Ministry of HRD Initiative)

**INDUSTRIAL VISIT  
TO**

**KAKATHIYA THERMAL POWER PROJECT  
CHELPUR, JAYASHANKAR BHUPALAPALLY**

Date: 18-11-2023

Dr. VSK Reddy  
Director

Dr. S.Srinivasa Rao  
Principal

Dr. T.Venugopal  
Dean Student Welfare

Dr. PHV Sesha Talpa Sai  
R&D Director

Dr.M.Sharanya  
Prof & HOD.EEE

## FIELD/EXPOSURE VISIT TO PRE-INCUBATION UNITS

12 & 13  
DECEMBER

10:00 AM TO 5:00 PM  
DURATION = 05:00 HRS



THE VISIT IS PLANNED FOR ENCOURAGING WOMEN ENTREPRENEURS BY WE-HUB



MRCET

## HANDS ON WORKSHOP ON MATLAB&SIMULINK

EEE COMPUTER  
LAB, MRCET  
18th to 19th JAN  
2024  
10 AM to 3 PM





# ENGINEER'S DAY CELEBRATIONS



Bhanu Prasad Rao

EEE Department celebrated  
Engineer's Day on 15th  
September 2023 in honor of  
Dr. M Visvesvaraya.



**MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY**  
(Autonomous Institution - UGC, Govt. of India)

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**Celebrates**  
**ENGINEER'S DAY**  
**September 15<sup>th</sup>**

**Dr. VSK REDDY**  
DIRECTOR

**Dr. S. SRINIVASA RAO**  
PRINCIPAL

**Dr. T. VENUGOPAL**  
DEAN (STUDENT WELFARE)

**Dr. M. SHARANYA**  
ASSISTANT PROFESSOR





# CURRENT NEWS EEE

EFFECTIVE EFFICIENT AND ENERGETIC

## A NEWS LETTER FROM DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Volume 4 , JULY 2024

CONTACT US: [currentnewseee@gmail.com](mailto:currentnewseee@gmail.com)

## EDITORIAL MEMBERS



**Dr. Karimulla P Sk**  
*Associate Professor*



**Mr. R Sai Kiran**  
*Assistant Professor*



**Mr. G Naresh**  
*Assistant Professor*



MRCETEE

### **Vision:**

To strengthen the department into a center of academic excellence with focus on advanced technology and research by delivering the best quality technical education to the students in meeting the current and future challenges with emphasis on moral and ethical foundation.

### **Mission:**

To create and enrich academic environment with essential resources, so as to train and mould students to promote active learning, critical thinking with innovative ideas to solve real-world problems in the field of Electrical Engineering.

### **Quality Policy:**

Ensure high standards in teaching and learning, while consistently embracing faculty development programs, to provide students with a comprehensive education in electrical and electronics engineering and achieve the institution's goals.