



MAHATMA GANDHI

INSTITUTE OF TECHNOLOGY (Autonomous)

Kokapet(Village), Gandipet, Hyderabad, Telangana – 500075. www.mgit.ac.in



MOTIVATE
INNOVATE
EMPOWER

26

YEARS

ADVISORS

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Sri. J. Pratap Reddy

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Principal, MGIT (Autonomous)

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Assistant Professor, EEE

Mr. C. Mahesh

Assistant Professor, EEE

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Mrs. N. Madhuri, Assistant Professor

Mr. B. Narsimha Reddy, Assistant Professor

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Mrs. S. Sudha Rani, Assistant Professor

Mr. P. Ranjith Krishna, Assistant Professor

Mrs. Swati Paliwal, Assistant Professor

Mr. H. Gurunath, Assistant Professor

Mr. D. Vamshy, Assistant Professor

RESOURCE PERSONS:

Mr. Deepesh Kumar Barla

Co-Founder and Chief Executive Officer,
EV Retron Energies India Pvt. Ltd., Hyderabad.

TOPICS:

Day-1:

- Introduction to Electric Vehicle Technology
- EV Motor Technology
- E-Vehicle components selection and working
- Li-ion Battery Pack
- Battery Management System (BMS)
- Battery Packs Basic Testing & Troubleshooting

Day-2:

- Calculation, Simulation and Analysis
- Hands-on session on EV Emulator
- EV Charging Technology
- Electrical Safety & Troubleshooting
- EV Certifications & Standards
- EV Market Scenario, Job Opportunities

Organized by



Mahatma Gandhi Institute of Technology

(Autonomous)

Department of

Electrical and Electronics Engineering

A Two Day

Hands - On Training Programme

on

**“Electric Vehicle Technology and
Battery Management System”**

In Collaboration with

“EV Retron Energies India Pvt. Ltd.”

from

13th to 14th March 2024

Time: 10:00 AM to 04:00 PM

Venue: E-701 (EEE Seminar Hall)

Address for Correspondence

Mahatma Gandhi Institute of Technology (Autonomous)

Gandipet, Chaitanya Bharati (P.O),

Ranga Reddy District, Hyderabad,

Telangana - 500075.

Website: www.mgit.ac.in

ABOUT THE INSTITUTE:

Mahatma Gandhi Institute of Technology is one of the premier Engineering Colleges in the self – financing category in the state of Telangana. It has grown rapidly since its inception in 1997. The lush green campus of MGIT instituted by Chaitanya Bharthi Educational Society is spread over 30 acres of pleasant landscape with a constructed area of 2,50,787 sq.ft. MGIT is affiliated to Jawaharlal Nehru Technological University, Hyderabad. The institute is accredited by NAAC with 'A' grade for a period of 5 years and Eight Under Graduate programs of the institute are accredited by National Board of Accreditation, New Delhi. The college offers instruction in 11 undergraduate programs (Electrical and Electronics Engineering, Computer Science Engineering, Computer Science Engineering (Data Science), Computer Science Engineering (Artificial Intelligence and Machine Learning), Computer Science and Business System, Information Technology, Electronics and Communication Engineering, Mechanical (Mechatronics) Engineering , Metallurgical and Materials Engineering, Civil Engineering and Mechanical Engineering) and also 5 PG programs. The college celebrates its annual cultural festival 'NIRVANA' and each of the departments conducts annual technical symposiums & conferences. The Management extends unstinted support in organizing all curricular, co-curricular and extra-curricular activities. In its two decades and more of its evolution, all the stake holders of the Institute, relentlessly endeavoured to position MGIT as a Leader and an Innovator in the ecosystem of technical education. The Institute has established excellent Infrastructure such as state-of-the art laboratories, spacious library with a collection of printed and digital books & journals, sports & hostel facilities along with Infrastructure for extra and co-curricular engagements, in pursuit of academic excellence. The institute has received MHRD's NIRF-2022 Ranking in the rank band: 251-300. Starting from academic year 2021-2022 MGIT is conferred with Autonomous status for 10 years by UGC, New Delhi.

ABOUT EEE DEPARTMENT:

The Electrical and Electronics Engineering department was established in the year 2001-2002. The department imparts knowledge in the field of design of electrical equipment. The experienced faculty with the aid of 7 well equipped laboratories impart valuable theoretical & practical knowledge to the prospective engineers to make them future ready. The main objective of the department is to create interest and imbibe fundamental concepts of Electrical Engineering among the students to bridge the gap between academics and industrial needs. Students are always an asset to the institute and nurturing them is of foremost importance. In addition to this, the department also has the Memorandum of Understanding (MoU) with Central Power Training Institute (CPTI), Covenant Technology Solutions, Ademtek Solutions Pvt Ltd, SkillDzire and Hyderabad Institute of Electrical Engineers (HIEE) to have a result-oriented training for Electrical Engineering and Electrical Design Courses. These MoUs provide high-quality education; professional training and continuous guidance to the students helping and guiding them to be placed in core electrical engineering jobs. The dedicated staff members possessing sound knowledge in emerging areas like Power Systems, Power Electronics, Micro Electronics, Control Engineering, etc., motivate and stimulate challenging research projects coupled with high standard of lecture courses, ensuring that the students choose appropriate career path.

PARTICIPANTS:

B.Tech VI – Semester / M.Tech II & IV – Semester Students

Certificate:

Certificate will be provided to all the attended students after successful completion of training programme.

ABOUT TRAINING PROGRAMME :

The Training Programme aimed for students to focus on electric vehicle concepts especially on electric vehicle technology and battery management system that offers a wide range of technologies in the field of e-mobility. The program would enable the students to explore the knowledge on EV Emulator, and to understand the components in the vehicle. The students will be able to explore the operation and workings of electric vehicles.

TRAINING PROGRAMME GUIDELINES:

1. After submitting the Google form for participant registration for the Training Programme, Whatsapp Link will be provided. All the registered students for the programme must join the Whatsapp group for any other information regarding FDP.
2. Attending all the sessions and submission of feedback cum attendance form by students is mandatory.
3. Feedback cum attendance forms will be distributed at the end of the session.
4. Certificate will be provided to all the registered students who attend all the sessions and submit the day wise feedback cum attendance forms at the end of each session.
5. The last date for registration is on or before 11 March 2024, 9:00 PM.

How to Register for Training Programme:

All the Interested students are informed to fill the Google form through the link given below

<https://bit.ly/3Tvcz8s>

OR

Scan the QR code below to register

