

A Five-Day Faculty Development Program on

Sustainable Energy Solutions in Electric Vehicles using Artificial Intelligence & Machine Learning

06 - 10 January 2025
(Blended Mode)



Organized By

Department of
Electrical and Electronics Engineering
Gokaraju Rangaraju
Institute of Engineering and Technology
(AUTONOMOUS)

Approved by AICTE, Affiliated to
JNTUH, Accredited by NAAC
with A++ Grade
Bachupally, Kukatpally, Hyderabad- 500090
Telangana, India.

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Mrs. P Sitha Mahalakshmi

(Sustainable Mobility & Energy Consultant)

About FDP

The Faculty Development Program (FDP) on "Sustainable Energy Solutions in Electric Vehicles (EVs) using AI&ML" aims to provide educators and industry professionals with a deep understanding of how sustainable energy technologies and advanced Artificial Intelligence (AI) & Machine Learning (ML) can be integrated into the electric vehicle (EV) ecosystem. The program covers topics such as energy-efficient EV technologies, battery systems, and smart charging infrastructure powered by renewable energy. Additionally, it explores how AI&ML techniques can optimize energy management and predictive maintenance in EVs. By focusing on cutting-edge applications like vehicle-to-grid solutions, energy harvesting, and optimization algorithms, the FDP aims to equip participants with the knowledge and skills necessary to contribute to the development of more sustainable, efficient, and intelligent electric transportation systems.

Objectives of FDP

- Discuss emerging trends and challenges in the adoption of sustainable energy solutions in EVs.
- Encourage faculty to innovate and undertake research in sustainable energy solutions for EVs.
- Discuss industry challenges in EV energy solutions and how AI&ML can address these issues.
- Utilize solar, wind, or hybrid energy systems to power EV charging stations.
- Analyse policies and frameworks supporting sustainable energy adoption in EVs.

About GRIET

Gokaraju Rangaraju Institute of Engineering and Technology (GRIET) was established in the year 1997 with a noble vision by Dr. G. Gangaraju as a self-financed institute under the aegis of Gokaraju Rangaraj Educational Society. GRIET is approved by AICTE, New Delhi, permanently affiliated to JNTUH, and autonomous status granted by UGC. GRIET is committed to quality education and is known for its innovative teaching practices. It offers 8 UG and 2 PG programs in Engineering. It has state-of-the-art infrastructure and incorporates value education, social responsibility, and problem-solving skills in the curriculum. It follows goal-oriented and innovative practices to mould students into trustworthy, resourceful, and multitalented professionals. NAAC accredited the Institute with 'A++' grade. All eligible UG and PG Programs are accredited by NBA. Ranked amongst 101-150 in Engineering category by National Institutional Rankings Framework (NIRF) 2024, MHRD, Govt of India. GRIET is accredited by SIRO, Department of Scientific and Industrial Research (DSIR).

About EEE

The Electrical and Electronics Engineering department started in the year 1997. EEE department has been accredited for excellence in engineering education from the year 2006 and continues to maintain its accreditation to

till date by National Board of Accreditation, New Delhi. The Department is recognized as Research Centre for Ph.D program by JNTUH. It undertakes consultancy projects for industries and actively involved in the various research projects worth Rs 239 lakhs funded by AICTE, DST, MSME and other organizations. In the past decade, the department has seen over 500 research papers published showcasing the academic excellence. The Department is the Centre for Excellence in E-mobility. The Department has established multiple Memorandums of Understanding (MOUs) with leading institutions and organizations to foster collaboration, enhance learning opportunities, and promote research and innovation.



Target Audience:

Faculty members, PG Students and research scholars of the AICTE approved institutions and industry persons are eligible to attend this programme

Registration Details

Participants can fill the google form from the link or from the QR Scanner given below

For Registration:

<https://forms.gle/FwB8L9FYe9ZRYqhy7>



Registration fee: ₹ 500

Account Details

A/C Name: Head of the Department Electrical
and Electronics Engineering

A/C No: 10812191015124

IFSC Code: PUNB0188210

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Register now for the Faculty Development
Program (FDP) and secure your spot for this
enriching and transformative experience!

For Further Details Contact

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