ONLINE
FACULTY DEVELOPMENT PROGRAMME (FDP)
"Advancements in Electric Vehicles and Autonomous Mobility for a Sustainable Future"
(22nd June to 29th June 2025)
Organized by
BVRIT HYDERABAD COLLEGE OF ENGINEERING FOR WOMEN, HYDERABAD
In Association With
Electronics & ICT Academy, NIT Warangal
Sponsored by
Ministry of Electronics and Information Technology (MeitY), GoI

Preamble:

"Electronics & ICT Academy – Phase II" was set up at NIT Warangal with financial assistance from MeitY, GoI. This academy's role is to offer Faculty Development Programmes in standardized courses and emerging areas of Electronics, Information Communication Technologies, training & consultancy services for Industry, Curriculum development for Industry, CEP for working professionals, advice and support for technical incubation and entrepreneurial activities.

About the FDP:

In line with the vision of a self-reliant and Viksit Bharat, this Faculty Development Program (FDP) is designed to empower faculty members, researchers, and industry professionals with the knowledge, tools, and insights needed to stay at the forefront of this revolution. The FDP will focus on the interdisciplinary advancements driving the next generation of e-mobility. The program will provide in-depth exposure to modern electric vehicle architectures, energy-efficient powertrain design, battery technologies, smart charging infrastructure, and intelligent energy management systems. Participants will also gain valuable insights into autonomous vehicle technologies, including sensor fusion, AI-based decision-making algorithms, and vehicle-to-everything (V2X) communication systems. This FDP will feature lectures, demonstrations, and interactive sessions led by leading academicians, industry experts, and researchers. It will serve as a platform to enhance participants' teaching, research, and innovation capabilities in the fast-evolving field of electric and autonomous mobility.

Major Course Content:

- Electric Vehicle Architectures and Energy Management Strategies
- Battery Technologies and Battery Management Systems (BMS)
- Vehicle-to-Grid (V2G) and Vehicle-to-Everything (V2X) Integration
- Autonomous Vehicle Technologies and Sensor Fusion
- Electric Powertrain Control and Optimization Techniques
- High-Efficiency Charging Systems: AC, DC Fast and Wireless Charging
- Cybersecurity and Communication Protocols in EV and Autonomous Systems
- Autonomous Driving Algorithms: Path Planning and Decision Making
- Role of AI and Digital Twins in EV Lifecycle and Autonomous Driving
- Urban Mobility and Smart Transportation Infrastructure for EVs

Experts/Speakers:

Resource persons will be from IITs, NITs, Industries and Foreign Universities.

Registration Fees:

Registration fees for the FDP, inclusive of GST is:

Faculty/Research Scholars	**Rs. 750/-**
Industry Participants	**Rs. 1500/-**

Participants need to pay the Registration Fee Online using the following details:
Account Name: Electronics & ICT Academy NITW
Account No: 62423775910
IFSC: SBIN0020149
Bank and Branch: State Bank of India, NIT(REC) Warangal

How to Apply:

Participants are required to fill out the online registration form by clicking on the following link:

https://forms.gle/97ZhDREvzdJ7VWLQ9

Selection Criteria:

Selection will be made based on first-come-first-serve basis to a maximum number of 40 participants. Candidates will be issued satisfactory certificates on successful completion of the course.

Important Dates:

Last date of Application	**15th June 2025**
Selection Notification	**17th June 2025**

About BVRIT Hyderabad:

BVRIT HYDERABAD College of Engineering for Women, established in 2012, is the youngest offspring of the Sri Vishnu Educational Society. BVRIT HYDERABAD is a multidisciplinary, research-focused, student-centric institute offering academic programs at the undergraduate and post graduate levels. BVRITH was granted UGC autonomous status from AY 2023-24. It was started with an intake of 240 students of four different branches EEE, ECE, CSE and IT. Through consistent academic excellence, the college could extend the intake up to 600 students with New Programs in Emerging technology UG – CSE (AI&ML) and PG – M.Tech (Data Science), M.Tech (VLSI Design) and M.Tech (CSE). The institute highly focuses on teaching, research and innovation by applying the best practices in all. The college has established special labs including JNTUH recognized R&D Centre. College was accredited by NAAC with 'A' Grade and the UG Programs – EEE, ECE, CSE & IT were accredited by NBA.

About EEE Department, BVRIT Hyderabad:

The Department of Electrical and Electronics Engineering (EEE), established in 2012 with an annual intake of 60 students, is affiliated with Jawaharlal Nehru Technological University Hyderabad and accredited by NBA. With experienced faculty and state-of-the-art laboratories, the department emphasizes practical learning beyond the syllabus. It aims to produce innovative professionals capable of leadership in technology, business, and society, ensuring industry readiness through hands-on training and prestigious certifications. The department has established Electric Vehicles (EVs) Design Lab at BVRITH aims to step forward in design of e-mobility vehicles.

About NIT Warangal:

National Institute of Technology, Warangal, is the first among 17 RECs set up as a joint venture of the Government of India and the state government. Over the years, the college has established itself as a premier Institute imparting technical education of a very high standard, leading to B. Tech degrees in various branches of engineering, M. Tech., and Ph. D. Programmes in various specializations. For more details about NITW, explore www.nitw.ac.in

About EED NIT Warangal:

The Department of Electrical Engineering, NITW established in 1959. The department has been actively engaged in teaching and research in diverse fields of Electrical Engineering with excellent faculty. The department offers Under Graduate Programme in Electrical and Electronics Engineering and Post Graduate Programmes in "Power Electronics & Drives", "Power Systems Engineering", "Smart Electric Grid", "Control & Automation" and also offers Ph.D. Programme in Electrical Engineering. The department has well-equipped state-of-the-art laboratories and dynamic group of faculties with profound experience in academics, research and industry collaboration.

Course Coordinators:

Mr. Morri Prashanth, Assistant Professor, EEE, BVRITHCEW, Hyderabad

Dr. Balusu Srinivasa Rao, Professor & HOD, EEE, BVRITHCEW, Hyderabad

Prof. B. L. Narasimharaju, Professor, EE, NIT Warangal

E-mail: prashanth.m@bvrithyderabad.edu.in, 9885270287

E-mail: eee.hod@bvrithyderabad.edu.in, :9949646356

E-mail: blnraju@nitw.ac.in :9448401052

Proposed Speakers:

Prof. Mukesh Kumar Pathak	IIT Roorkee
Prof. B L Narasimharaju	NIT Warangal
Prof. DM Vinod Kumar	SR University
Dr. Pradyuman Chaturvedi	VNIT Nagpur
Dr. Aurobindo Panda	NIT Sikkim
Dr. Dogga Raveendhra	MNNIT, Allahabad
Dr. R Kiran	NIT Warangal
Dr.K Tirupati Raju	NIT Delhi
Dr. Juttu Simhachalam	ARAI
Dr. Harish Krishna Murthy	University of Houston
Dr. Ilamparthy	University of Victoria, Canada
Dr. G Prem Kumar	Consultant, Canada
Dr. Dinesh	Danfoss, Denmark
Dr. Shreyam Sinha	IIT Delhi
Dr. Sashidhar Sampathirao	IIT Goa
Dr. Man Mohan Garg	MNIT Jaipur
Dr. S V S Phani Kumar	L&T Technology Services, Bangalore