

### About PEASE Faculty Development Program:

The main motto of the Faculty Development Program (FDP) “**Power Electronics Applications in Smart Grids and Electric vehicles (PEASE-2025)**” is to provide the platform for the upcoming researchers who are willing to work in the areas of

- **Power Electronics in Smart Grids**
  - Transmission Systems
  - Distribution Systems
  - Renewable Energy Integration
  - Energy Management & Storage
  - Grid Security and optimization
  - Advanced Control Systems
- **Power Electronics in Electric Vehicles**
  - Sensor-less Techniques
  - Artificial Intelligence Techniques
  - Multilevel Inverters
  - Battery Charging Systems
  - Latest Motor Drive Technologies

The importance of power electronics has grown over the years due to several factors. Power electronics is interdisciplinary in nature and is used in a wide variety of areas such as Electric Drives, Power Quality in Power Systems, and Renewable Energy systems etc... This FDP is designed to address applications of power electronics in the industry and to encourage various zonal professionals /research scholars/ academicians towards research and for their academic quality improvement too. This course will offer a unique opportunity to the all colonize in the relevant topics in Power Electronics applications to come closer through theoretical sessions and a greater number of laboratory-based experiments/ demonstrations.

### About the Institute:

National Institute of Technology, Andhra Pradesh is the 31<sup>st</sup> institution among the chain of NITs started by the Government of India. NIT Andhra Pradesh is established in the state of Andhra Pradesh from the academic year 2015–16. This institute offers various disciplines of Engineering and Technology at the Undergraduate level and Ph.D. program. The institute is striving to offer excellent facilities for advanced research in the emerging areas of Science and Technology.

### How to reach the Institute:

The Tadepalligudem town is extremely well connected by road (Chennai - Howrah NH16), by rail (Vijayawada - Vishakhapatnam section) and by air (Vijayawada [International], Rajahmundry [National] and Visakhapatnam [International] airports) for about 95 km, 60 km and 240 km respectively).

### About the Department:

The department is one of the pioneering departments of the Institute. The department is progressing at a rapid pace with development in both the spheres of infrastructure facilities and academic programs. The department has highly qualified faculty members engaged in teaching and research with the aim of achieving excellence in the field of Electrical Engineering. The department offers UG course in Electrical and Electronics Engineering. The department is offering Ph.D. program to promote basic research activities in the various areas of Electrical Engineering. The consultancy and testing services are also rendered by the department.

### **A Five-Day Faculty Development Program (FDP)**

On

### **POWER ELECTRONICS APPLICATIONS IN SMART GRIDS AND ELECTRIC VEHICLES (PEASE - 2025)**

During

**17<sup>th</sup> – 21<sup>th</sup> March 2025**

**Chief Patron**

**Prof. N.V. Ramana Rao**

**Director, NIT Andhra Pradesh**

**Patron**

**Dr. Karthick Seshadri,**

**Dean, Faculty Affairs**

**Dr. T. RAMESH**

**HoD, EE Department**

**Convener**

**Dr. N. JAYARAM**

**Assistant Professor, EED**

**Coordinators**

**Dr. Jami Rajesh**

**Dr. P.S.V. Kishore**

**Dr. K. Vinay Sagar**

**Dept. of Electrical Engg.**



**Organized by**

**Department of Electrical Engineering  
NIT Andhra Pradesh**

Tadepalligudem, Andhra Pradesh-534101,  
India.

### **Address for Communication:**

**Dr. Jami Rajesh**

Mobile No: +91 9985140057

**Dr. P.S.V. Kishore**

Mobile No: +91 9948893130

**Dr. N. Jayaram**

Mobile No: +91 8295490329

Department of Electrical Engineering,  
NIT Andhra Pradesh,  
Tadepalligudem - 534101,  
West Godavari District,  
Andhra Pradesh - INDIA.

For any queries, please mail to  
[fdp.eee@nitandhra.ac.in](mailto:fdp.eee@nitandhra.ac.in)

### **Who can apply?**

- Research/ PG Scholars.
- Faculty members/ Academicians.
- Industrial Professionals/ Delegates.

### **FDP Fee:**

**Research/ PG scholars : 300/-**

**Faculty Members : 500/-**

**Industrial Professionals/ Delegates : 1000/-**

The payment can be made through online using Internet Banking/Phone pe/ Google Pay/ Paytm in favor of "Director, NIT Andhra Pradesh" payable at "SBI, Satyavathi Nagar, Tadepalligudem", "Account no: 40107272308 IFSC: SBIN0016305".

### **Registration and General Information:**

The applicant can register for the FDP through the Google form link given below.

<https://forms.gle/frK9QZ5j1vJaA8CG9>

**Last date for submitting Google Form : 10<sup>th</sup> March 2025**  
**Intimation to Participants : 13<sup>th</sup> March 2025**

Limited seats are available in this course. **The participants would NOT be paid any TA/DA.** Speakers from reputed institutes are invited for the technical sessions. Tentative contents of the PEASE-FDP are provided as below. However, there would be any changes due to any unavoidable circumstances.

### **Lodging and Boarding:**

**The working lunch and refreshments will be provided by the institute for free of cost.** However, for outside station participants, accommodation may be provided on chargeable basis in the institute hostels based on availability.

### **PEASE-FDP Tentative Contents:**

- Power Electronics in Smart Grids
- Electric Drives for EV applications
- Sensor-less Induction Motor Drive Systems
- PMSM Drive and artificial intelligence
- Power Quality with Multilevel converter/inverter
- On-grid RES conversion systems.
- Battery Charging Systems for EV

### **Tentative List of Resource Persons:**

**Prof. Pramod Agarwal**

Department of Electrical Engineering  
Indian Institute of Technology Roorkee

**Prof. Obbu Chandra Sekhar**

Electrical Engineering Department  
National Institute of Technology Delhi

**Dr. Sukanta Halder**

Department of Electrical Engineering  
ISM Dhanbad

**Dr. Karanki Srinivas Bhaskar**

School of Electrical and Computer Sciences Dept.  
Indian Institute of Technology Bhuvanewar

**Dr. Aeidapu Mahesh**

Department of Electrical Engineering  
SV National Institute of Technology Surat

**Dr. Gangireddy Sushnigdha**

Department of Electrical Engineering  
SV National Institute of Technology Surat

**Dr. D. Sreenivasa Rao**

Department of Electrical Engineering  
National Institute of Technology Warangal

**Dr. Giri Babu Dyanamina**

Department of Electrical Engineering  
Maulana Azad National Institute of Technology  
Bhopal

**The faculty members from the National Institute of Technology Andhra Pradesh**

**A Five-Day Faculty Development Program (FDP)**

on

**POWER ELECTRONICS APPLICATIONS IN SMART GRIDS AND ELECTRIC VEHICLES (PEASE) - 2025**

**Registration Form**

Name :  
Gender :  
Age :  
Experience :  
DOB :  
Qualification :  
In Industry :  
In Academics :

Present Designation :  
Present Organization & Address:

\_\_\_\_\_

Mobile No. :  
Email :  
Have you been sponsored for this : Yes / No  
FDP?

If yes, Address of Sponsoring Authority :

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Payment Details:**

Transaction ID :  
Bank Name :  
Dated :  
Amount :

Signature of the applicant  
with date: \_\_\_\_\_

**Approval from present employer/ organization of the applicant:**

The applicant is a research scholar/ an employer and will be permitted to participate in the above program, if selected.

**Signature** and the **Seal** of Head of the Institution/Department/Section