

About the Programme

The main motto of the Faculty Development Program (FDP) “Power Electronics Applications in Smart Grids and Electric vehicles (PEASE-2021)” is to provide the platform for the upcoming researchers who are willing to work in the areas of -

- **Power Electronics in Smart Grids**
 - Energy Management & Storage
 - Grid Security and optimization
 - Advanced Control Systems
 - Transmission Systems
 - Distribution Systems
 - Renewable Energy Integration
- **Power Electronics in Electric Vehicles**
 - Sensor-less Techniques
 - DC-DC converters in HEV’s
 - 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 area of 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 professional’s /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 more number of laboratory-based experiments/ demonstrations.

ATAL Academy

AICTE Training and Learning (ATAL) Academy is established with the vision “To empower faculty to achieve goals of Higher Education such as access, equity and quality”. First AICTE Training and Learning (ATAL)

Academy and NWRO (Camp Office) of AICTE in Jaipur was digitally announced with establishment of its other centers in the country at Jaipur, Vadodara, Guwahati & Trivandrum. Also, ATAL academies are announced where AICTE Camp offices are situated. ATAL academy will conduct a series of workshops in thrust areas identified by AICTE.

Eligibility

The faculty members of the AICTE approved institutions, Research scholars, PG Scholars, participants from Government, Industry (Bureaucrats/Technicians/Participants from Industry etc.) /School Teachers and staff of host institutions.

Important Dates

Last date for Applying in ATAL website: 20-06-2021

List of selected participants will be intimated through mail : 21-06-2021

Registration and Other Details

There is no registration fee from any participant. No TA/DA will be paid to any participant. Participants will have to make their own stay arrangement during the five days. Only tea during sessions/working lunch will be provided to the participants. The certificates of participation by respective ATAL Academy shall be issued to those participants who have attended the program with minimum 80% attendance and scored minimum 60% marks in the test. Top 30 Participants of the programme may receive the books on the topic “Electric Vehicles”. Early information on e-mail for registration is appreciated.

Address for Correspondence

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REGISTRATION FORM

Five-day Online Faculty Development Programme (FDP) under AICTE Training and Learning (ATAL) Academy

on

POWER ELECTRONICS APPLICATIONS IN SMART GRIDS AND ELECTRIC VEHICLES (PEASE - 2021)

25-06-2021 to 29-06-2021

**DEPARTMENT OF ELECTRICAL ENGINEERING
NIT ANDHRA PRADESH - 534101**

1. Name: _____
2. Designation: _____
3. Organization: _____
4. Address for correspondence with e-mail:

5. Telephone / Mobile No: _____
6. Teaching/Industry Experience: _____
7. Research area: _____

Place:

Date:

Signature of the Applicant

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

Tentative Schedule:

Date	09.00 AM to 11.00 AM	11.00 to 11.30 AM	11.30 AM to 01.00 PM	1.00 to 2.30 PM	2.30 PM to 4.00 PM
25/06/2021	Session 1: Reg. & Inauguration Power Quality Issues in EV charging stations Prof. A. K. Panda, NIT Rourkela	High Tea	Session 2: Integration of Electric Vehicles in Smart Grids Dr. V. Sandeep, NIT Andhra Pradesh	Lunch	Session 3: Multi-level Inverter fed PMSM Drive for EV Applications Dr. T. Ramesh, NIT Andhra Pradesh
26/06/2021	Session 4: DC-DC converters for RES Integration Dr. Srinivas Bhaskar Karanki, IIT Bhubaneswar	Tea	Session 5: Multilevel converter based grid connected renewable energy conversion system Dr. Jayaram, NIT Andhra Pradesh	Lunch	Session 6: Model Predictive Controlled electric motor drives for EV applications Dr. T. Vinay, NIT Warangal
27/06/2021	Session 7: Role of interface power converters Dr. R.C. Sekhar, IIT Ropar	Tea	Session 8: Novel search space reduction optimization technique: programming and implementation Dr. A. Mahesh, SVNIT Surat	Lunch	Session 9: Hands-on- session on Simulation of Multi-level Inverter Fed PMSM Drive Dr. T. Ramesh, NIT Andhra Pradesh
28/06/2021	Session 10: Capacity building/Personal Effectiveness Prof. P. Ravi Kumar, NIT Warangal	Tea	Session 11: Smart Electric Grid Dr. Mikkili Suresh, NIT Goa	Lunch	Session 12: Hands-on session on DC-DC Converters Dr. S. Shiva Kumar, BITS Ranchi
29/06/2021	Session 13: Sensorless PMSM drive for HEV application Dr. D. Giribabu, MANIT Bhopal	Tea	Session 14: Hands-on- session on Power Converters in Electric Vehicles Dr. P. Sankar, NIT Andhra Pradesh	Lunch	Participant-Performance Evaluation, Feedback and Valedictory Function

About the Institute

National Institute of Technology, Andhra Pradesh is the 31st 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. Various disciplines of Engineering and Technology at the Undergraduate and Postgraduate level, the institute is striving to offer excellent facilities for advanced research in the emerging areas of Science and Technology

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 programmes. 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 Engineering and PG programme in Power Electronics & Drives. The department is offering Ph.D. programme to promote research activities in the various areas of Electrical Engineering.

AICTE Training and Learning (ATAL) Academy



Five Day Online FDP
on

POWER ELECTRONICS APPLICATIONS IN SMART GRIDS AND ELECTRIC VEHICLES (PEASE - 2021)

during
25-06-2021 to 29-06-2021

Coordinator

Dr. T. Ramesh
Assistant Professor, Dept. of EE

Convener:

Dr. V. SANDEEP
Assistant Professor & HEAD, EED

Patron

Prof. C.S.P. Rao
Director, NIT Andhra Pradesh



Organized by

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