

### **About PEAS – Short Term Course:**

The main motto of the Short Term Course (STC) “**Power Electronics Applications in Power Quality, Drives and Renewable Energy Systems (PEAS)**” is to provide the platform for the upcoming researchers who are willing to work in the areas of -

- **Power Quality Issues**
  - Conventional Converters
  - High Power Factor Converters
- **Electric Drive Control Systems**
  - Sensor-less Techniques
  - Artificial Techniques
- **Renewable Energy Sources**
  - Multilevel Inverters
  - Grid-Tie RES

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 STC 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 more 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 – 2016. CPWD has taken up the activity of

construction of Academic, Hostel, Guest House and Admin buildings in Phase-I. Expected date of completion of Phase-I building in by March 2019. Immediately Phase-II will be executed. HEFA / MHRD has sanctioned Rs. 400cr for infrastructure and development. 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.

### **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). Presently, the institute is operating in the transit campus located inside Sri Vasavi Engineering College Campus, Pedatadepalli Village, Tadepalligudem. This transit campus is around 6Kms from Tadepalligudem Bus Complex.

### **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 in the process of introducing a PG programme in Power Electronics & Drives. The department is about to offer Ph.D. programme to promote basic research activities in the various areas of Electrical Engineering. The consultancy and testing services are also rendered by the department.

**An institute sponsored**  
**A Five Day Short Term Course (STC)**

on

## **POWER ELECTRONICS APPLICATIONS IN POWER QUALITY, DRIVES AND RENEWABLE ENERGY SYSTEMS (PEAS - 2018)**

**Scheduled during**  
**21<sup>st</sup> – 25<sup>th</sup> December 2018**

### **Chief Patron**

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

### **Patron**

Dr. P. SANKAR  
HOD, EED

### **Coordinators:**

Dr. N. JAYARAM  
Dr. T. RAMESH  
Assistant Professor, EED



### **Organized by:**

Department of Electrical Engineering  
National Institute of Technology Andhra Pradesh  
Tadepalligudem, Andhra Pradesh-534101, India.



### **Address for Communication:**

#### **Dr. N. JAYARAM**

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#### **Dr. T. RAMESH**

Assistant Professor,  
Mobile No: +91 9034003377  
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Coordinator (PEAS STC - 2018),  
Department of Electrical Engineering,  
NIT Andhra Pradesh,  
Tadepalligudem - 534101,  
West Godavari District,  
Andhra Pradesh - INDIA.

### **Who can apply?**

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

### **STC Fee:**

**Research/ PG scholars** : 800/-  
**Faculty Members** : 1000/-  
**Industrial Professionals/ Delegates** : 2000/-

The D.D. drawn in favour of "Director, NIT Andhra Pradesh" payable at "SBI, Pedatadepalli" "IFSC Code of Branch: 021650" should be sent along with the completely filled and approved STC registration form.

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

Applications as in the attached format along **with the D.D.** should reach the coordinators address as in "Address for Communication"

*Last date of reaching : 17<sup>th</sup> December 2018 application*

*Intimation to candidate : 18<sup>th</sup> December 2018*

Limited seats are available in this course. **The participants would NOT be paid any TA/DA.** The D.D. which was sent along with the registration form would be refunded back if applicant is not selected for STC. Speakers from reputed institutes are invited for the technical sessions. Tentative contents of the PEAS-STC 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, no accommodation shall be provided by the institute and the participants should make their own arrangements for lodging. There are many hotels available in the Tadepalligudem Town with nominal license fee.

### **PEAS-STC Tentative Contents:**

- Power Quality issues
- Multilevel converter/inverters
- Sensor-less Induction Motor Drive Systems
- PMSM Drive and artificial intelligence
- On-grid RES conversion systems.
- Role of High Power Factor Converters in Renewable Energy Systems
- Laboratory sessions on above topics

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**POWER ELECTRONICS APPLICATIONS IN  
POWER QUALITY, DRIVES AND RENEWABLE  
ENERGY SYSTEMS (PEAS) - 2018**

### **Registration Form**

Name :  
Gender :                      DOB :  
Age :                            Qualification :  
Experience : In Industry :  
  In Academics :  
Present Designation :  
Present Organization & Address :

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Mobile No. :  
Email :  
Have you been sponsored for this : Yes / No  
STC?  
If yes, Address of Sponsoring Authority:

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### **Payment Details :**

DD No. :                                      Dated :  
Bank Name :                                      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

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**Registration Form**

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

Present Designation :

Present Organization & Address :

\_\_\_\_\_

Mobile No. :

Email :

Have you been sponsored for this STC? : Yes / No

If yes, Address of Sponsoring Authority :

\_\_\_\_\_

**Payment Details :**

DD No.	:	Dated	:
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Bank Name	:	Amount	:
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Signature of the applicant

with date : \_\_\_\_\_

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