

**REGISTRATION FORM**  
**A Two-day Online Workshop on**  
**“Recent Technologies in Power Systems”**  
**30-31, August 2021**

1. Name :
2. Qualifications :
3. Teaching Experience:
4. Designation/Dept :
5. Institution :
6. Address for  
Correspondence :
7. Phone (O) :  
Mobile :
8. E-Mail :

**DECLARATION**

The information furnished above is true to the best of my knowledge. I agree to abide by the rules and regulations governing the workshop.

Place:

Date: Signature of the Applicant

**Note:** Registration fee @ Rs.100/- should be paid to the following:

**Account Details:**

**Name of the Bank: State Bank of India**

**A/C No: 62290721121**

**IFSC Code No: SBIN0020931**

**Kindly register online with the following Link:**

**<https://forms.gle/BrdHyNqaTvcSENaY9>**

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**A Two-day Online Workshop on**  
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on

**30-31, August 2021.**



**University College of Engineering Vizianagaram**  
**JNTUK Kakinada**

**Organized By**

**Department of Electrical & Electronics Engg**  
**JNTUK- University College of Engg Vizianagaram,**  
**Vizianagaram-535003**

### **ABOUT THE INSTITUTION**

Jawaharlal Nehru Technological University Kakinada (JNTUK) is formed in the year 2008 under Act No.30 of 2008, Govt. of AP. University College of Engineering Vizianagaram (UCEV, JNTUK), is one of the constituent Engineering Colleges of this JNTUK playing a significant role since 2007 in imparting Technological Education in the state of Andhra Pradesh. JNTUK, UCEV is initially established with seven UG programmes (B.Tech) viz., EEE, ECE, CSE, IT, ME, CE and Metallurgy. The college is developing with more UG and PG programmes in various branches of engineering. It has acquired good reputation among the University Engineering Colleges of Andhra Pradesh in academics and infrastructure, placements and providing quality technical education within a short span of time and emerging as one of the premier institutions of AP.

### **ABOUT THE DEPARTMENT**

Department of EEE, UCEV JNTUK, with UG & PG offers excellent educational opportunities to students seeking a challenging environment to pursue academics. The department has adequate teaching faculty having varied fields of specialization in Electrical Engineering. The faculty is engaged in active research in the areas of Power System Optimization, Adaptive Power System Stabilizers, Hybrid Power Systems, Power Electronic Drives, Large Scale Uncertain Systems and publishing their research findings in refereed Journals/ Conferences.

### **ABOUT THE WORKSHOP**

Electrical Energy is the basic economic development of a country. Energy exists in different forms in nature but the most important form is the Electrical energy. In this modern society use of electrical energy has become a part and parcel of our life. An electric power system is a network of electrical components used to generate, transfer (transmit), supply (distribute), and use electrical

energy. Here grid plays an important role in supplying uninterrupted supply to all the regions in our country.

Grid interconnects all the five regions of our country and now it has been made into one grid, one nation, and one frequency in India.

Renewable energy plays an important role in bridging this gap with its rapid development. The usage of RES has increased due to environmental issues and limited fossil resources. Photovoltaic (PV) and Wind Energy (WE) systems have become the most common type of the grid connected RES. Due to the uncertainty of renewable energy sources in the power network, operation and control become challenging. Smart grid technology provides communication -and-control capabilities, renewable energy sources, integration distributed generation, energy efficient devices, demand side & demand response models and regulatory structures. These systems require power electronic conversion stages. This workshop provides an opportunity to students, research scholars, faculty and industrial participants in the research and development of suitable technology for the implementation recent trends in power system.

#### ***Objective***

This workshop is aimed at creating an effective forum for exchanging innovative ideas and research works in the areas of recent trends and upcoming advancements in the domain of Power Systems. Erudite Speakers from the field of Academia and Industry shall be delivering their lectures on the thematic areas of the workshop. They shall be sharing their expertise on different aspects of Power System like modern operation and control techniques, economics of power system, power system optimization, Smart Grids etc. to the participants.

The objective of this workshop is to elucidate the participants about the modern developments and trends in the field of Power Systems.

### **Topics to be covered:**

- Model order reduction techniques and application to power systems
- Substation Automation Basics and Development from Conventional to IT based Substation Automation
- Introduction to transmission lines fault analyzer
- Demonstration of transmission lines fault analyzer
- Emerging trends in Power Generation sector- Role of NTPC
- Power Electronic Converters and Control Techniques for Wind Energy Conversion Systems

### **RESOURCE PERSONS**

The Sessions will be handled by experts from academia, research organization and industry in the subject area.

### **ELIGIBILITY**

The faculty members, research scholars (PG and Ph.D.), participants from Government, Industry are eligible to apply.

**\*E-certificate will be provided to the participants.**

### **FOR DETAILS CONTACT**

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