REGISTRATION FORM

A Two Day National Workshop on

"Research Tool for Advanced Modelling and Analysis of Electrical Utilities"

20th-21st, November 2017

1. Name :
2. Qualifications :
3. Teaching Experience :
4. Designation/Dept :
5. Institution :
6. Address for Correspondence :
7. Phone (O) :
   Mobile :
8. E-Mail :
9. D.D No., Date and Bank Details :
10. Accommodation required: (Y/N)

Last date for registration: on or before **13-11-17.**

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

SPONSORSHIP CERTIFICATE

Certified that Mr./Ms._____ is a regular employee/student of our institution and is hereby sponsored for the two day workshop on "**Research Tool for Advanced Modelling and Analysis of Electrical Utilities**" at JNTUK UCEV, Vizianagaram during **20th -21st, November 2017**.

Signature with Seal of the sponsoring authority

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JNTUK, Kakinada

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Vice-Principal(Acad), UCEV, JNTUK,

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HOD, Department of EEE

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A Two Day National Workshop on

"Research Tool for Advanced Modelling and Analysis of Electrical Utilities"

20th -21st, November 2017

Organized By

Department of Electrical & Electronics Engg
JNTUK- University College of Engg
Vizianagaram,
Vizianagram-535003.
http:// jntukucev.ac.in/RTAMAEU2017

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.

INTRODUCTION

With the ever increasing global energy demand, today's power system is changing rapidly by integrating dispersed generation (DG) units. This provides some distinctive benefits to power utilities and consumers that are not available from centralized electricity generation. DG units includes both renewable and non-renewable energy sources such as wind turbines, photovoltaic (PV) generators, fuel cells, small hydro, wave generators, and gas/steam powered combined heat and power stations, are being unified into power systems at distribution level. The term "distributed resources" includes modular power technologies and energy efficient techniques such as non-generating demand-side-management (DSM) measures that release transmission and distribution (T&D) capacity. Despite of major potential benefits resulting from DG investments, too much DG could possibly suffer from drawbacks like High financial cost, Less choice between more costly primary fuels, Economic Efficiency, Environmental protection, Energy Security, Power Quality, Connection issues (Change in power flow, Protection, Reactive power, Power Conditioning) etc. It is required to design suitable power conversion devices for integrating DG units to have high efficiency and performance in power systems. To properly analyze the dynamic behaviour of modern power system including DG units, the researchers should gain the knowledge and application of efficient tools in order to model various energy sources.

OBJECTIVE OF THE WORKSHOP

The workshop mainly focuses on two effective software tools i.e. PSIM and CYME to create awareness among young researchers to learn, apply and analyze today's modern power system integrated to DGs which is the need of the hour. PSIM, an Electronic circuit simulation software package, used by industry for research and product development and is also used by educational institutions for research and teaching. It has several modules in which modelling of renewable energy sources will be concentrated more to make the learner's to analyze the performance of power distribution system including DGs effectively. The CYME Power Engineering software comprises of a variety of advanced applications and extensive libraries for either transmission/industrial or distribution power network analysis. The workshop mainly concentrates on solutions of key power distribution problems. The sessions in the workshop will be handled by PSIM and CYME tools professionals from Tech Labs.

TENTATIVE SCHEDULE

Day-1	Session I	Introduction of PSIM,
	Session II	Simulations with PSIM Basic Module, Closed loop simulations with Control Module
	Session III	Simulations with MATLAB Interface Simulations with Thermal Module,
	Session IV	Simulations with Motor Drives
Day-2	Session I	Simulations with Renewable Energy Sources, Simulations with Smart Control,
	Session II	Overview of Hybrid Electric Vehicle Overview of Motor Controller Design Suite,
	Session III	Introduction to Power World Simulator, Power Flow and Fault Analysis with Power World,
	Session IV	Introduction to CYME, Simulations with CYME Transmission & Industrial Systems Overview of Distribution Network Analysis.

REGISTRATION

All Participants (Faculty & PG Students) should register for workshop by sending the filled in Registration form along with DD. For Rs.500/- (Five Hundred only) in favor of "HOD EEE DEPT UCEV" Payable at SBI Vizianagaram.

*Accommodation will be arranged for interested participants on prior intimation through mail at the college hostels on nominal payment basis.

VENUE

#AB-I, JNTUK- University College of Engg Vizianagaram. Vizianagram-535003.

FOR DETAILS CONTACT

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