

One Week National Level Workshop

On

**Recent Developments and
Research Challenges in Distributed
Generation and Microgrid**

13th – 17th December 2016

Under

TEQIP – II

Registration Form

Name: _____

Designation: _____

Qualification: _____

Organization: _____

Address: _____

Mobile No: _____

Email: _____

Registration payment particulars:

DD No: _____ Amount: _____

Date: _____ Bank: _____

Accommodation Required: YES / NO

Place:

Date: _____ **Signature of the Applicant**

Forwarded through Head of the Dept./Institution

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Organized by

**Department of Electrical & Electronics Engineering
Madanapalle Institute of Technology & Science
(UGC Autonomous)**

Kadiri Road, Angallu, Madanapalle – 517325

Chittoor District, Andhra Pradesh, INDIA

www.mits.ac.in

About the Institution

Madanapalle Institute of Technology & Science (MITS) is established in 1998 in the picturesque and pleasant environs of Madanapalle. MITS is governed by a progressive management that never rests on laurels and has been striving conscientiously to develop it as one of the best centers of academic excellence in India. MITS is approved by All India Council for Technical Education (AICTE) and obtained UGC autonomous status in the year 2014. MITS is one of the premier institutes in the state implementing world bank funded project under TEQIP Phase-II. MITS got recognized as Scientific and Industrial Research Organization (SIRO) by Dept. Of Scientific and Industrial Research (DSIR) of DST, Govt. of India, New Delhi. MITS has been recognized as research centre (first college in rayalaseema region) by JNTUA Ananthapuramu denotes excellence in academic pursuits.

About the Department

The Department of Electrical and Electronics Engineering has been playing a vital role in producing technologists of highest caliber ever since it was established in the year 1998. The department runs one under-graduate programme and two post-graduate programmes (M.Tech. - Electrical Power Systems & M.Tech. - Solar Power Systems) to cater the ever-challenging needs of technical excellence in all areas of Electrical Engineering such as Power systems, Control Systems & Power Electronics. The College Academic Council and Board of Studies of the department strive to provide quality education with most advanced curriculum to make the students industry ready as well as excel in the contemporary business world. The UG Programme of the department was accredited by the National Board of Accreditation (NBA). The department has

well qualified, experienced faculty and well equipped laboratory facilities with state-of-the-art technology. The department has very strong interaction with several reputed industries and R&D organizations.

Theme of the Workshop

In recent times, the high penetration of Distributed Generation (DG) installations, is expected to address the nation needs and environmental concerns. A common feature of the DG systems is the power electronics interface which required to convert the energy sources output to the grid ready voltages. These power electronic devices also provide enhanced flexibility for the DG operation and energy management. The DGs are intended to supply peak loads of the local area and may or may not be connected to the central grid. However, it has all the functions of the central grid, generation, transmission, and distribution, but supplies energy to only limited local area, hence it is cited as micro-grid. To achieve improved power quality, reliability and stability in a microgrid, proper design and control of the DG interfacing equipment are important. Hence, many researchers put forth great attention towards the recent developments and research challenges in distribution generation and microgrids. Therefore, this workshop addressed the following topics (but not limited to) that helps the researchers to have better exposure over distributed generation and microgrid:

- Research issues of distribution network with high penetration of DGs
- Recent advances in the integration of DERs to microgrid
- Role of power electronics in grid integration
- Power quality and stability issues of a microgrid
- Coordinated power dispatch among DGs in a microgrid
- Reliability and protection issues of DGs & Microgrid

- Microgrid architecture and design principle, infrastructure, ICT, storage and smart metering technologies.
- Role of Distributed Generation, Micro-Grid and storage in shaping smart cities

Resource Persons:

Experts from IITs, NITs, industry and other reputed Institutions

Target Audience

The workshop is open to teaching faculty of AICTE approved technical institutions, research scholars/PG students and engineers working in the industry.

Venue:

Seminar hall, department of EEE, Madanapalle Institute of Technology & Science Angallu, Madanapalle.

Important Dates:

Last date for registration :07-12-2016

Conformation of participation :08-12-2016

Registration Fee

Research scholars/PG students	: Rs. 500/-
Faculty from university/college	: Rs. 1000/-
Industry participants	: Rs. 1500/-

Registration fee includes workshop kit, participation certificate, and working lunch. Participants need to submit the registration form duly filled along with DD in favor of "Madanapalle Institute of Technology & Science" at the time of registration. The participants will be provided with accommodation on payment basis with prior request.

Note: To confirm the participation a soft copy of registration form should be sent via e-mail to rdrcdgm16@mits.ac.in on or before 07-12-2016.