

## Registration Form

Name of the participant:

Designation:

Organization:

Contact Address:

Email:

Mobile No:

IEEE Member: Yes/No

(If yes attach copy of membership card)

Registration Fee:

DD Number:

Date:

Bank:

DD should be drawn in favour of **IEEE Madras Section** Payable at Chennai

Date: \_\_\_\_\_ Signature of Applicant.

Filled Hardcopy of the Registration form along with DD to be sent to

### IEEE MADRAS SECTION

Room No 3, ISTE Professional Center,  
Gandhi Mandapam Road, Kotturpuram,  
CHENNAI- 600025.

ieeemas@gmail.com

Landline: 044 24423939

Mobile: 9382328776

### Co-ordinators:

**Dr.K.Vijayakumar**, HOD/EEE

SRM Institute of Science and Technology

**Dr.J.Preetha Roselyn**, Associate Prof/EEE

SRM Institute of Science and Technology

**Dr.D.Devaraj**

Chair-Educational Activities

IEEE Madras Section

### Contact Persons:

**Dr.D.Devaraj**

Chair-Educational Activities

IEEE Madras Section

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IEEE MADRAS SECTION  
&  
SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

*Presents*

FACULTY DEVELOPMENT PROGRAMME

ON

MICROGRID AND GRID INTEGRATION

ISSUES OF DISTRIBUTED GENERATION

**July 25 to 27 - 2018**

Organized by:

IEEE Madras Section

&

IEEESB(35301)

SRM Institute of Science and Technology

Venue:

Department of Electrical and Electronics Engineering  
**SRM INSTITUTE OF SCIENCE AND TECHNOLOGY**  
KATTANKULATHUR



INSTITUTE OF SCIENCE & TECHNOLOGY  
(Deemed to be University u/s 3 of UGC Act, 1956)

## About the Institution

SRM Institute of Science and Technology (formerly known as SRM University) is one of the top ranking universities in India with over 38,000 students and more than 2600 faculty across all the campus, offering a wide range of undergraduate, postgraduate and doctoral programs in Engineering, Management, Medicine and Health sciences, and Science and Humanities. Foreign faculty, flexible and dynamic curriculum, exciting research and global connections are the features that set SRM apart. Students have a wide choice of cutting edge programs including nanotechnology, bioinformatics, genetic engineering, remote sensing and GIS, embedded systems or computer forensics to choose from. Most of these courses are offered in close collaboration with foreign universities. 80% of students are from outside Tamil Nadu, with students from Europe, China and other countries. Over 150 students sponsored to 35 foreign universities like MIT, Carnegie Mellon, UC Davis, Warwick and Western Australia. SRM is accredited by NAAC with 'A' Grade in the year 2013. SRM Institute of Science and Technology (formerly known as SRM University) is placed in A category by MHRD.

## About EEE Department

The EEE Department at SRM Institute of Science and Technology prepares students in electrical field using new-age information and computer-intensive technologies. The department of EEE offers UG programme B.Tech (EEE) and PG programmes in Power systems engineering and Power Electronics & Drives besides PhD programme. The faculty in the department is a rich blend of personnel with industrial and professional experience. The department has 85 faculty members and 15 research scholars expertise in the areas of power systems, power electronics & Drives, Soft Computing Techniques in power systems, renewable energy like wind and solar, FACTS devices, fault diagnosis in electrical machines. The EEE department has 15 laboratories with modern equipments like Grid connected PV system, PV emulators, FPGA controller, Dspace, cRIO processor and also software tools like MATLAB, LABVIEW, MULTISIM, PSPICE, MAGNET, POWER WORLD SIMULATOR, MIPOWER. EEE Department interacts and liaises with well-reputed industries to facilitate funded projects, research and consultancy in the chosen areas. The department's Corporate Advisory Board includes top executives from leading industries and government organizations such as State Electricity Board, Larsen & Toubro, Siemens, Bharat Heavy Electricals Ltd, Atomic Research Centre, etc.

## About IEEE

The Institute of Electrical and Electronics Engineers Inc. (IEEE), a nonprofit organization, is the world's leading professional association for the advancement of technology. IEEE offers a wide range of learning, career enhancement, and employment opportunities within the engineering sciences, research and other technology areas. The goal of these programs is to ensure the growth of skill and knowledge among professionals and to foster individual commitment to continuing education among IEEE members, the engineering and scientific community and the general public. IEEE Student branches provide an opportunity for student members to begin networking in their areas of interest and future profession. There are nearly 2,000 student branches in 80 countries at various educational institutions.

## About IEEE Madras Section

IEEE Madras Section came into existence in 1973 and has crossed its silver jubilee year. The IEEE Madras Section conducts technical lectures, symposiums and conferences by eminent personalities from several fields. The section is concerned about the welfare of the students in this part of the country and wants to improve the teaching learning process in the Engineering Colleges and Universities. IEEE Madras Section has received the Large Section Award for the year 2016.

## About the Programme:

The objectives of the event are to equip the participants with working knowledge of fundamentals, design tools, current research and critical issues in the development and deployment of micro grid and integration of renewable energy resources into the grid. This programme will also pave the way for integrating renewable energies satisfying the grid codes, enable customer participation, energy storage support. This programme will provide the participants with recent advancements in the area of microgrid. Distributed power generation systems comprising of small generation and storage units are gaining popularity due to increasing energy demand. Some of the focus areas of the programme will be various control challenges such as coordinated control, voltage and transient stability of microgrid, protection issues, energy management and solution of interconnection issues of DG. In addition, the programme will include various laboratory hardware sessions like Dspace for converter control, MPPT controllers, PV emulators, grid connected PV system and microgrid setup and study of Microgrid in software tools like ETAP, Digsilent and Power world simulator. The aim of the organizing team is to enlighten professional discussions on microgrid technologies bringing up all engineering disciplines to move towards microgrid world by providing educational platform and to assure research endurance to the participants.

## Indicative Course Content

- Integration issues of renewable energy in microgrid
- Demand side management in microgrid
- Fault ride through schemes in grid connected wind and solar systems
- Energy management systems in microgrid
- Power quality issues in microgrid
- Laboratory sessions on microgrid setup, pv emulators, grid connected pv system and dspace for converter control
- Hands on training in Digsilent & PSCAD Software cRIO and myRIO processors.
- Issues in shipboard microgrid systems

## Resource Persons

1. **Dr.D.Devaraj**,  
Dean(Academics),  
Kalasalingam Academy of Research and Education,  
Srivilliputhur.
2. **Dr.K. Shanti Swarup**,  
Prof/Electrical Engg,  
IIT Madras, Chennai.
2. **Dr.M.P. Selvan**,  
Associate Prof/Electrical Engg,  
NIT, Trichy
3. **Mr.D.Sudharsan**,  
Asst Engineering Manager,  
Electrical Power Transmission and Distribution,  
L & T, Chennai
4. **Mr.Ajith Raj**,  
System Validation Engineer,  
Visteon, Chennai
5. **Mr.Kamalesh**,  
Assistant Professor,  
Kongu Engineering College,

## Participants:

Faculty/Research Scholars from technical universities/Engineering colleges of India can participate.

## Course Fee:

**IEEE members: Rs 600**

**Non IEEE members: Rs 1000**

## Dates to Remember:

Last date of Registration: **July 15' 2018**

Date of Intimation: **July 20' 2018**