

REGISTRATION FORM

(To be filled in block letters)

Name:

Department:

Institution:

IET Membership ID:

Address:

City/State:

Mobile:

Email ID:

Signature of Participant

Registration Details:

- Last Date for Registration : 08-11-2021
- Intimation of Acceptance : 09-11-2021
- No registration fee for IET student members. Attach Proof for membership.
- For Non IET Members, I. PG Student / Research Scholar/ Faculty / Industrial Persons-Rs.300 /-2. UG Students - Rs.100 /- Amount to be paid to Bank of Baroda, Vel Tech Branch, Recipient Name : IET EEE Account Number:75330400000013, IFSC Code: BARB0VJVELT (Fifth Character is Zero) with Transaction Proof with Date, Transaction ID, UPI/UTR No *

Registration Link

<http://shorturl.at/ltyT4>



RESOURCE PERSONS

Dr. Vijayakumar Krishnasamy

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Associate Professor, Department of EEE,
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Mr. Rajasekhar Reddy

In-charge, Operation & Maintenance,
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ORGANIZING TEAM

Convenor

Dr. V. Jayasankar, Professor & Dean SoEC

Coordinator

Dr.P. Chandrasekar, Professor & Head EEE

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Vel Tech

Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

Two Days Online Workshop
on

Design & Simulation of Hybrid Smart Grid for Smart City Application

11th & 12th November 2021

In association with



Organized by

Department of
Electrical and Electronics Engineering,
School of Electrical and Communication

| About Vel Tech

Vel Tech is well-known for its renowned educational practices, which has been recognized and endowed with several awards. The founders of the Institution, Col. Prof. Vel. Dr. R. Rangarajan Chancellor & Founder President and Dr. Sagunthala Rangarajan Foundress President believes in Education for all despite their financial means which will promote and uplift the society. In accord to their vision, Vel Tech Mahatma Gandhi Scholarship scheme was started and has supported students since the inception. Vel Tech has bestowed 9500 scholarships worth approximately Rs. 35 Crores until 2020.

| About the School

The School of Electrical and Communication comprises of Department of Electrical and Electronics Engineering and Department of Electronics and Communication Engineering. This school motivates the students to actively participate in nationally reputed clubs such as robotics club and small device programming club, to enthuse and bring out their design skill from them. Many of our faculty members in the school received Doctoral degrees from reputed Institutions from India and abroad. The students are also involved in nationally significant projects namely small satellite projects in collaboration with international industries in France, Germany etc. The Programmes are well designed and developed in close interaction with industry partners like C-DAC, FCRI, ARAI and NASSCOM etc.

| About the Department

The department of Electrical and Electronics Engineering started in the year 1997. The department offers B.Tech - Electrical and Electronics Engineering, M.Tech. - Power Electronics and Ph.D. programmes. New courses

are introduced subsequently and the existing ones are restructured to reflect the recent trends. The department has been strengthened by its passionate and research focused faculty members from reputed universities in India and abroad. The department has well equipped laboratories and state of the art facilities for research and development. The key areas of academic research are Smart Power Grid, Industrial Drives, Industrial Automation and Renewable Energy, Electric Vehicle and Battery Management System. The faculty and students have won awards like Creative Technology KASA, Korea, L&T Techgium Best Innovator Award recently. The department is actively associated with organizations such as Fluid Control Research Institute (FCRI) and Kwaliti photonics Ltd.

Preamble

Smart Grid facilitates efficient and reliable end-to-end intelligent two-way delivery system from source to sink through integration of renewable energy sources, smart transmission and distribution. Smart Grid is the Future scope in our country to overcome most of the issues in power sector. Central Govt. is on the way of establishing more smart cities in our country.

Objectives

- To understand about Smart Grid technology and its components.
- To learn about micro grid, nanogrid, smart home energy system and smart city
- To study on real time monitoring and control of smart power system

Outcomes

After attending this workshop, Participants will be able to:

- Represent the Smart Grid, Smart City Structure and its components

- Identify the different modules of smart grid
- Analyze various issues in interconnecting smart grids
- Point out the challenges in establishing Smart Cities in India

Targeted Participants

UG, PG Students / Research Scholars from Engineering Colleges and Universities

Schedule

DAY- I (11.11.2021)

09.30 - 10.00 - Inauguration

10.00 - 11.30 - Applications of IoT in Smart Grid Architecture

14.00 - 15.30 - Integration of Distributed Energy Sources for Smart Grid

DAY- II (12.11.2021)

10.00 - 11.30 - Realization of 20kW Micro Grid at ISRO SHAR Security outposts

14.00 - 15.30 - Power Quality Issues in Grid Integration of Renewables with Smart Grid

15.30 - 16.00 - Valedictory

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