Resource Persons for STTP

Dr. N. Kumarappan Professor, Annamalai University, Tamil Nadu

Dr. Radheshyam Saha Professor, DTU, Chief Engineer (Retd)-CEA, Delhi

Dr. D.V.S.S. Sivasarma Professor, NITW, Warangal, Telangana

Dr. Ravikumar Bhimasingu Professor, IIT Hyderabad, Hyderabad

Dr. R. Gnanadass Professor, Pondicherry Engineering College

Dr. C.S.R.K. Prasad Professor, NITW, Warangal, Telangana

Dr. K. N. Dinesh Babu Product Manager, Megger, Chennai, Tamil Nadu

Dr. P. Balakrishna Senior Lead R&D Engineer, GE, Hyderabad

Dr. Rohit Bhakar Centre for Energy & Environment, MNIT, Jaipur

Dr. Vasundhara Mahajan Associate Professor, SVNIT, Surat, Gujarat

Dr. K. Sathish Kumar Associate Professor, VIT, Vellore

Dr. Asadur Rahman Assistant Professor, EE Dept., NIT Srinagar

Dr. N.Goutham Kumar Asst. Prof., National Fire Service College, Nagpur

Er. G. M. Sharat Chandra National Load Dispatch Centre, POSOCO, Delhi

AICTE Sponsored



One Week National Level Online Short Term Training Program (STTP) Phase-III On

RECENT TRENDS AND CHALLENGES IN POWER MARKET WITH SMART GRID TECHNOLOGY

20th - 25th September, 2021.

Organized by

Department of Electrical & Electronics Engineering



Velagapudi Ramakrishna Siddhartha Engineering College (Autonomous)

Accredited by NAAC with 'A+' Grade, Approved by AICTE & Affiliated to JNTUK Kanuru (V), Vijayawada-520007 Andhra Pradesh **www.vrsiddhartha.ac.in**

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Coordinator Dr. B. Srinivasa Rao, *Professor, EEE*

Co-coordinator Sri P. Venkatesh, Assistant Professor, EEE

Important DatesLast date for registration: 17-09-2021Intimation of acceptance: 18-09-2021

Address for correspondence

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About The Institution

Velagapudi Ramakrishna Siddhartha Engineering College (VRSEC) is established in the year 1977 as the first self-financing institute in the composite state of Andhra Pradesh. The Institute offers 7 Under Graduate and 12 Post Graduate Programs with total intake of 1440. The institute has totally 350 faculty members with 125 Doctorates from various premier institutions. The institute has received more than Rs.10 crores amount as sponsored research grant from various research agencies.

All UG programs of the institution have been accredited 4 times by NBA. The College has been awarded Autonomous status to the courses by UGC and JNTUK, Kakinada since 2006. First time in Andhra Pradesh state, UGC extended the autonomous status for 10 years i.e. up to 2027-28 without visiting the college. The institute recognized as "Scientific & Industrial Research Organization (SIRO)" by DSIR. MST, Govt. of India since August 2017. The institute bagged All India Rank 156 and 178 given by NIRF-MHRD in the year 2020 2021 respectively. ARIIA categorized VRSEC in rank band-A (6-25) for outstanding Innovation and Entrepreneurship Development.

About EEE Department

The Department of Electrical and Electronics Engineering was established in the year 1977. The current intake of UG Program B.Tech (EEE) is 120 and PG Program M.Tech (Power Systems Engineering) is 18. Both UG and PG programs are accredited by NBA for a period of 6 years and 2 years respectively. The department was recognized as research center by JNTUK, Kakinada in 2017.

The department has 30 faculty members with 13 Ph.Ds. All laboratories in the department are well equipped with state of art equipment for worth of Rs. 2.5 crores. The major equipment available in various laboratories is 220kV Transmission Line Simulator, HV testing Equipment, Numerical Impedance relay, Relay panel Bay control unit, SCADA, 3-Phase fault simulator with Relay coordination kit. Machine Tutor, etc. The department is also possessing licensed software such as MiPower, PSCAD, Power World Simulator, MATLAB, PSIM and PV*Sol-Premium. A group of faculty members are working on product development like DSP based multi-function meters. In Electrical Machines Laboratory, all working tables are equipped with digital panel meters designed and fabricated by our own faculty.

About the STTP

All the nations worldwide are investing more efforts to reduce carbon emissions and encourage more sustainable lifestyles. The energy sector is a prime example of these efforts, as the move towards using renewable and clean energy has been ongoing for over a decade. One of the many trends that have emerged in recent years is the use of smart grids. Smart grid is an electricity network system that uses digital technology to monitor and manage the transport of electricity from all generation sources to meet demand from consumers. This STTP aims to discuss the recent trends and challenges in power market, the concept of smart grid and its advantages over conventional grid. This training program provides the knowledge to the participants on smart grid technologies and developments.

Topics to be covered

- ✓ Smart grid revolutionizing world energy future
- ✓ Power system flexibility in RE rich grids
- Smart grid innovations driving power markets
- Smart grid protection system Hard fiber technology
- ✓ Trading and operation of Indian electricity market
- ✓ Power market and reliability aspects.
- ✓ Smart grid and demand side management.
- ✓ Peer to peer local electricity markets
- ✓ Application of heuristic based optimization algorithms to demand side management
- ✓ The role of power electronics devices in smart grid
- ✓ Improving Resiliency In Grid Connected Renewable Energy Sources

Eligibility Criteria:

The STTP is open to faculty members of AICTE approved institutions, research scholars, persons of industry and research organizations from all over country.

Registration Fee & Other Details

There is no registration fee for this STTP. The interested participants need to submit the online registration form through this link. https://forms.gle/EMNXPSJhQcywDT93A

After registration join the whatsapp group by the link provided after submitting the registration form. Online meeting link will be provided to all the registered participants. The number of participants will be limited to 100. The E-Certificate will be provided to those participants who satisfy the AICTE norms.