

About Us

University College of Engineering was established in the year 1929. The College was declared autonomous by the University in 1994 and by UGC in 2010. University's accreditation by NAAC with A+ grade and Category-I graded autonomy by UGC are applicable to the College. The institution has received ISO 9001:2015, 14001: 2015 and 50001: 2018 certification in 2023.

The Department of Electrical Engineering was started in 1949. Presently the department is offering B.E. in Electrical & Electronics Engineering and M.E. courses in Industrial Drives & Control, Power Systems and Power Electronic Systems. The Part-Time Ph.D. program in Electrical Engineering is being offered since 1972. Department is accredited by NBA in 2019.

Chief Patron

Sr. Prof. D. Ravinder
Vice-Chancellor
Osmania University

Patrons

Sr. Prof. P. Laxminarayana
Registrar
Osmania University

Sr. Prof. M. Kumar
Dean, Faculty of Engineering
Osmania University

Sr. Prof. Sriram Venkatesh
Principal, UCE (A)
Osmania University

Advisory Committee

Professors (Retd., EED, UCE, OU)

Prof. B. N. Garudachar
Prof. P. V. N. Prasad

Alumni (EED, UCE, OU)

Sri. G. Raghuma Reddy
CMD, TSSPDCL, Hyderabad

Sri. A. Gopal Rao
CMD, TSNPDCL, Warangal

Prof. G. Tulasiram Das
Former VC, JNTUK, Kakinada

Sri. Ram Mohan Rao
Entrepreneur

Chairperson

Prof. E. Vidya Sagar
Head, Dept. of Electrical
Engineering, UCE, OU

Coordinators

Dr. N. Srilatha
Associate Professor, EED
Dr. G. V. Naga Lakshmi
Assistant Professor, EED

Technical Committee

Sr. Prof. G. Yesuratnam
Prof. M. Manjula
Prof. B. Mangu
Prof. G. Mallesham
Prof. P. Srinivas
Prof. P. Satish Kumar
Dr. M.V. Ramana Rao
Dr.CH. Siva Kumar
Dr. N. Susheela
Dr. B. Sirisha
Dr. E. Sreeshobha
Dr. R. Lingaswamy
Dr. P. Lokender Reddy
Dr. J. Upendar
Mrs. U. Suryavalli
Mrs. G. Jhansi Rani (C)
Mr. S. Vijender Reddy (C)
Mr. G. Kiran Kumar (C)



One Week Workshop

On

Smart Hybrid Energy Systems - Challenges and Solutions



18th to 23rd December, 2023



Organized by

Department of Electrical Engineering
University College of Engineering (A)
Osmania University, Hyderabad

As part of

Platinum Jubilee Celebrations

2023-24



Coordinators

Dr. N. Srilatha
Dr. G. V. Naga Lskshmi

Head

Prof. E. Vidya Sagar

About the Workshop

This workshop is designed considering the challenges involved in inclusion of different renewable energy sources into the modern smart electric grid and the operational practices required. While power systems are designed to handle the variable nature of loads, the additional supply-side variability and uncertainty can pose new challenges for utilities and system operators. However, a variety of operational and technical solutions exist to help integrate higher penetrations of renewable energy sources and loads like electric vehicles. General concepts, applications, control strategies and power management of hybrid microgrid are the topics to be reviewed. Apart from theoretical concepts, it is also planned to have hands-on experience (of about 15 hours) using Typhoon HIL software for simulation of new energy applications (smart grid, renewable energy and distributed generation, electric vehicles etc.) This workshop will be useful for faculty, researchers, students from Power systems or Power electronics specializations and industry professionals.

Topics to be covered

- Sizing of solar plant with energy storage and its integration issues and challenges
- Hybrid energy monitoring systems
- Control of converters for grid integration
- Effect of EV charging stations on distribution system
- Modelling and Simulation of
 - ✓ Single-Phase Inverter
 - ✓ MPPT Boost Charger
 - ✓ Battery Inverter Model
 - ✓ Microgrid Components with integration to Energy Storage model
 - ✓ Over Current Protection System
- Software Demonstration of Wind Power Plant Model, Terrestrial Microgrid Model
- Solar PV Grid Penetration issues and Mitigation Methods using MATLAB

Registration Fee Particulars

Participants need to pay registration fees online using the following details

Name: **Head, Department of Electrical Engineering, UCE(A), OU**

Account No: **52198265023**

IFSC: **SBIN0020071**

Bank and Branch: **SBI, OU Arts College**

Faculty	Rs. 3000/-
Students / Research Scholars	Rs. 1500/-
Industry Participants	Rs. 4000/-

Registration Link

Participants are required to fill the online registration form by clicking on the following link:

<https://forms.gle/wNN6G5CkRssnDHFM9>

Selection Criteria

Selection will be done based on first-come-first-serve to a maximum number of 50. The list of selected participants will be intimated through e-mail. In case the candidate is not selected, the registration amount will be refunded.

Important dates

Last date for Application	13-12-2023
Selection List by e-mail	15-12-2023
Duration	18-12-2023 to 23-12-2023

Contact Us

Dr. N. Srilatha **99120 41450**

Dr. G. V. Naga Lakshmi **94920 47114**

e-mail: shs.pjeedou@gmail.com

Accommodation & Transport

The participants are required to make their own arrangements.

