

ABOUT THE INSTITUTE:

Veer Surendra Sai University of Technology (VSSUT), Odisha formerly known as University College of Engineering, (UCE) Burla was established in the year 1956 as the first engineering college of the State at the foot hill of the world famous Hirakud dam. VSSUT, Odisha has carved a niche for itself among the best technical institutes in India and is a dream institute for many budding engineers. The University offers B.Tech, M.Tech., M.Sc, MCA and Doctoral research programmes. The University is surrounded by a large number of Government, public and private industrial sectors such as MCL, OHPC, HINDALCO, NALCO, NTPC, OPTCL, Vedanta Aluminium Ltd and Bhusan Steel Plant to name a few. The institute has an excellent placement record with a number of top ranking companies visiting the campus every year.

ABOUT DEPARTMENT OF EEE

The department of Electrical & Electronics Engineering (EEE) was established in the year 2010, combined with existing EE Department. It becomes operational as an independent department in year 2020. The current intake in to UG program B.Tech (EEE) is 60. The department is offering an excellent academia environment to pursue B.Tech. in EEE and Ph.D. in experts available with the department in specialized domain of research. This department also aims to establish itself as a forefront in R&Ds in the areas of Smart Grid, Power System Optimization, Power System Automation, Smart Sensors, Image Processing, Digital Signal Processing, Industrial Communication, Internet of Things & Cyber Physical System. The department has dedicated and qualified faculty pools with 2 Professors, 2 Associate Professors, 7 Assistant Professors.

ABOUT THE FDP:

Theme of the FDP:

Due to the growing awareness of the harmful impact of conventional fossil fuels and advancements in renewable energy technologies, microgrid has grown in popularity. This FDP will highlight the different aspect of the deployment of microgrids such as its architecture, mode of operations, control strategies, monitoring methods, protection schemes, energy management strategies etc. The FDP basically emphasizes on the need and merits of adoption of microgrid systems while also discussing the barriers in its implementation. The coverage of this FDP is within the two major topics i.e. operation and control. In this FDP, the participants will also be educated with advanced techniques to combat the challenges of the microgrid faced by power & control engineer. The objective of this FDP is to aware the participants with the right advanced skills, vision and knowledge to lead in teams involved in the operation, control, monitoring and protection of the microgrid.

Tentative Topics:

1. Design and Implementation of 1-phase Micro Grid using Wind, Solar and Small Hydro
2. Modeling and Optimization of Microgrids
3. PQ control of grid connected microgrids
4. Digital Protection of Microgrid
5. Dynamic stability of microgrids
6. Challenges of AC/DC hybrid microgrid protection
7. Energy management system of a microgrid
8. IoT based microgrid automation
9. IoT enabled Smart Sensors
10. Micro Phasor Measurement Unit based adaptive protection scheme for microgrids

Resource persons from
IITs, NITs, Foreign Universities and
Industries

Chief Patron

Prof. Atal Chaudhury
Vice Chancellor, VSSUT, BURLA

Patron

Prof. A.N.Nayak
Co-ordinator, TEQIP
VSSUT, Burla

Convener

Dr.Gyan Ranjan Biswal, Associate Professor & HOD,
EEE Dept, VSSUT BURLA

Coordinators

Dr.Gyan Ranjan Biswal, Associate Professor & HOD,
EEE Dept, VSSUT BURLA

Dr.Papia Ray, Associate Professor, Dept. EE,
VSSUT BURLA

No Registration Fee

Number of participants are limited to 30

Registrations will be closed by 1:00 PM on
07-09-2020

Webinar links will be shared on 07-09-2020

Timings: 10.30 a.m-12.30 p.m (1st Session), Lunch
Break:12.30 p.m-2.30 p.m, 2.30 p.m-4.30 p.m &
4.30-6.30 p.m (2nd Session)

E-Certificate will be issued to participants who
will attend for all 05 days sessions.



TEQIP-III Sponsored Five days Faculty Development Program (Online)

on

Advanced Micro Grid, Operation and Control (AMGOC-2020)

8- 12 Sep 2020

Organized by

Department of Electrical & Electronics Engineering
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BURLA, ODISHA

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