

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 THE DEPARTMENT OF EE

The Department of Electrical Engineering, Veer Surendra Sai University of Technology (Formerly University College of Engineering: Burla, Estd 1956), was established since its inception and at present offers the following four years undergraduate programmes, B.Tech; two years Master Degree programmes and Doctoral Degree. It has produced high quality technocrats for the last few decades to cater to the needs of Govt. Sector, PSU, industry, R&D organizations, and academic Institutions. The department has been accredited by NBA. The Department has 2 Professor, 3 Associate Professor and 17 Assistant Professor. The syllabi of the Department are updated with many advanced courses to enable students to keep themselves at par with the cutting-edge technology. The teaching in the department emphasizes on fundamental principles, development of creative thinking and the analytical ability to solve real life problems. The Department also encourages its students to engage in extra-curricular and co-curricular activities, personality development, developing team spirit, and developing organizational skills.

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Vice Chancellor, VSSUT, BURLA

Patron

Prof. Ganeswar Nath
Dean, CDCE, VSSUT Burla

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*Associate Professor & HOP,
EE Dept, VSSUT BURLA*

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EE Dept, VSSUT BURLA*

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Dr. Debidasi Mohanty,
*Assistant Professor,
EE Dept, VSSUT BURLA*

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Faculty Development Program

Sponsored by AICTE Training and Learning (ATAL) Academy

On

Emerging Trends for Advanced Protection,
Control and Energy Management in
Microgrid
(ETAPCEMM-2024)

23rd -28th Sep 2024

Organized by

Department of Electrical Engineering
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ABOUT THE FDP:

Theme of the FDP:

Microgrid is an emerging technology that promises to achieve many simultaneous goals for power system stakeholders, from the generator to the consumer. Microgrid has been widely used as an approach for the integration of distributed energy sources with energy storage systems in the electric network. The management and operation of microgrid require new and innovative, given its multi-objective, multi-constraint decision environment. Microgrid is characterized by self-sustainability, reliability, security, protection and control. To achieve these objectives, efficient, fast, and scalable trends are required. These emerging trends should be capable of processing information intelligently and making critical decisions dynamically.

This Faculty Development Program (FDP) is therefore devoted to summarize how the emerging trends in protection, control & energy management for microgrids can contribute to their achievement. In this FDP, the participants will also be educated with elementary as well as advanced trends to combat the challenges of the microgrid faced by electrical engineers. **The objective of this FDP is:**

- (i) To make the participants understand the elementary as well as advanced technologies for protection, control & energy management in microgrid.
- (ii) To aware the participants with the right advanced skills, vision, and knowledge to lead in teams involved in finding the solution of the challenges faced by the microgrid.
- (iii) To educate the participants with the emerging technologies and their implementation in the microgrid for better resilience and reliability.

The benefits of this FDP are:

- ❖ Faculty members/Research Scholar will be well exposed to the recent trends in protection, control & energy management of microgrid
- ❖ Ample scope of research in the area of microgrid among researchers will be produced.
- ❖ Real-time benchmark cases related to microgrid will be discussed which will create interest and awareness among industry and academic personnel.

Resource person for the FDP

- Dr. Anup K. Panda, Professor, EE Dept., NIT Rourkela, Odisha, India
- Dr. K.B. Mohanty, Professor, EE Dept., NIT Rourkela, Odisha, India
- Dr. R. K. Samal, Assistant Professor, EE Dept, VSSUT Burla, Odisha, India
- Dr. Jatin Kumar Pradhan, Assistant Professor, EE Dept., NIT Rourkela, Odisha, India
- Santanu Kumar Bahali, Senior Manager (OS), NTPC, Odisha, India
- Dr. P.K. Hota, Vice Chancellor, DRIEMS Univ, Cuttack, Odisha
- Dr. S. Panda, Professor, Dept of EE, VSSUT, Burla, Odisha, India
- Dr. B. B. Pati, Professor, Dept of EE, VSSUT, Burla, Odisha, India
- Dr. Banaja Mohanty, Assoc. Professor, Dept of EE, VSSUT, Burla, Odisha, India
- Dr. Rabindra Behera, Associate Professor, Dept of EE, IGIT Sarang, Odisha, India
- Dr. Monalisa Biswal, Assistant Professor, NIT Raipur, Chattisgarh, India
- Dr. P. C. Swain, Professor (Retd.), Civil Dept., VSSUT Burla, Odisha

Potential themes and topics, but not limited to, in this FDP are:

- Optimal Operation of Microgrid
- Power Quality Issues in Microgrid
- Advanced load frequency control in microgrid
- Challenges on installation of roof top solar panel
- Cyber-attack in Cyber Physical Microgrid
- Control performance improvement of grid connected wind electrical system and solar PV system
- Advanced protection of microgrid
- Energy Management in Microgrids with Renewable Energy Sources
- Empowering Sustainability: The Role of Solar Microgrid



No Registration Fee

Number of participants are limited to 30

Before 20th Sep, 2024, online registration by AICTE portal should be done on

<https://atalacademy.aicte-india.org/login>

The duly signed NOC hardcopy must be produced at the time of FDP.

TARGETED PARTICIPANTS

The faculty members (Assistant Prof/ Associate Prof), Ph.D scholars, PG Students of the AICTE approved institutions/Higher Education Institutions/Host Institute from the same city/within 100 km of host institute can participate in this FDP

- ❖ Enrolment will be on First come First Serve basis
- ❖ Only 30% participants from the host institute
- ❖ Minimum required 80% attendance to get a certificate
- ❖ Continuous Comprehensive Assessment of Attendees
- ❖ State of the art article discussion by attendees to submit proposal
- ❖ Industrial Visit Report submission by attendees

Letter Head

Participant NOC Format

Subject: NOC for Attending ATAL FDP

Date:

To Whom so ever It May Concern

This letter is to express No Objection on Mr./Mrs./Ms./Dr. _____ in attending **Emerging Trends for Advanced Protection, Control and Energy Management in Microgrid (ETAPCEMM-2024)** conducted at 'Veer Surendra Sai University of Technology' from 23/09/2024 to 28/09/2024.

This certificate is issued as per requirement of AICTE for successful conduction of ATAL Faculty Development Program.

Yours Sincerely,

(Sign & Stamp)
HoI/Competent Authority
Institute Name and Address