ଓଡ଼ିଶା ବୈଷୟିକ ଓ ଗବେଷଣା ବିଶ୍ୱବିଦ୍ୟାଳୟ
ODISHA UNIVERSITY OF TECHNOLOGY AND RESEARCH
(Formerly College of Engineering & Technology)
Ghatikia, Kalinga Nagar, Bhubaneswar- 751029 Odisha, India

Dear Sir/Madam,

We are pleased to announce that An AICTE Sponsored one week Faculty Development Program (Basic) on "***AI Application for Protection of Modern Power System Integrated with Sustainable Energy Sources***" scheduled to be held in the School of Electrical Sciences during the period from 15-12-2025 to 20-12-2025. Eminent faculties from reputed institutes such as IISc, IITs, NITs and from other well-known Organization will deliver lectures in this program along with industrial visit and hands on practice.

We strongly believe, the participants sponsored from your organization will be highly benefited from such Faculty Development Program on cutting edge technology.

We look forward a positive response from your end and confirmation of participation in this Faculty Development Program before the due date is highly solicited.

The brochure of the program is enclosed for your reference. Please visit our institute website www.outr.ac.in for detail information

How to Register: Through AICTE ATAL portal only
https://atalacademy.aicte.gov.in/login .
Last Date of Registration: 10-12-2025
Confirmation of Participation through ATAl Portal: 12-12-2025

Key Features:

a) The External participants from AICTE approved Institution travelling beyond 20 km will be provided to and fro train/bus fare through shortest route. The reimbursement of the TA will be made as per AICTE norms.
b) External Participants will be provided with lodging and boarding in the nearby Hotels on payment basis on advance request.
c) No Registration fee is charged for participation in the FDP.

Target Audience: Asst. Professors/ Associate Professor/ Ph.D. Scholar/ PG Students

Thanking you in advance

With sincere regards

Prof.(Dr) Lokanath Tripathy
Prof. Santanu Sen
Coordinators, FDP, Electrical Sciences -2025
School of Electrical Sciences
Odisha University of Technology and Research
Ghatikia, Bhubaneswar -751029
Mobile: 9438324244, 9692362384
Email: fdpelectrical2025@gmail.com

Registration Form
AICTE SPONSORED FACULTY DEVELOPMENT PROGRAMME
(15.12.2025 to 20.12.2025)

1. Name (Block Letters):

2. Designation & Dept:

3. Organization:

4. Address for communication:

Pin code:

Ph. No.:

E-mail:

5. Highest Academic Qualification:

6. Years of Experience:

7. Specialization:

8. Accommodation: Required / Not Required

Date: **Signature of the applicant**

Sponsorship Certificate

On the event of selection,

Prof./Dr./Mr/Ms. ---

will be relieved for participation of the above Programme.

Signature of the Head of the institution/Sponsoring Authority (With Date and seal)

Important Dates

- The filled in registration form should reach the Coordinators on or before 10-12-2025 (Wednesday)
- The Applicants will be informed about their participation by 12-12-2025(Friday)
- Please visit our website www.outr.ac.in for downloading registration form and other details

Contact Address of Coordinators

Dr. Lokanath Tripathy
Professor
Sri Santanu Sen
Assistant Professor
School of Electrical Sciences
Odisha University of Technology and Research
Bhubaneswar-751029, Odisha
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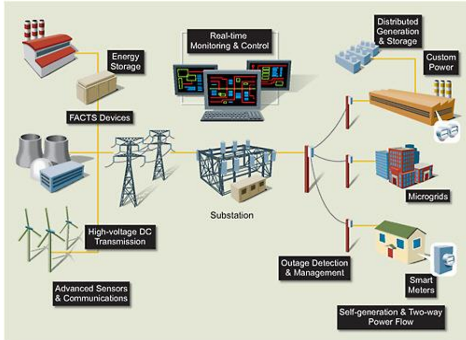
AICTE Sponsored Faculty Development Program on

AI application for Protection of Modern Power System Integrated with Sustainable Energy Sources

(15.12.2025 to 20.12.2025
(Monday to Saturday)



Coordinators

Dr. Lokanath Tripathy (Processor)
Sri Santanu Sen (Assistant Professor)
School of Electrical Sciences

Odisha University of Technology and Research
Bhubaneswar-751029, Odisha
www.outr.ac.in

Venue and Department

About The University (OUTR)

The Odisha University of Technology and Research (Formerly known asCollege of Engineering & Technology) Bhubaneshwar was established by the Government of Odisha in 1981 to meet the growing technical man power need in the State. The university is located in the Techno-campus (an area of more than 100 Acres) at Kalinga Nagar, Bhubaneswar about 2.0 Kms. away from Khandagiri-Udayagiri caves. The university is Equipped with high end research facilities with the presence of a High Performance Computing Lab for Artificial Intelligence, Deep Learning and Virtual Reality, Scanning Electron Microscope, 3D Printers to name a few. The university is NBA accredited in Tier-I in four disciplines (Electrical Engineering, Mechanical Engineering, Civil Engineering and Electronics & Instrumentation Engineering) and received funds under three TEQIP programs.

About The Department (School of Electrical Sciences)

Department of Electrical Engineering (at present School of Electrical Sciences) was established in the year 1982, in College of Engineering and Technology, under OUAT and transformed into NBA and NAAC Accredited department subsequently in the year of 2010. The very fact that only the top rankers of the OJEE are eligible to study in this School speaks tons about the importance of the School in the state educational scenario.

The School has received various research projects from DST, Govt. of India, DST, Govt. of Odisha, AICTE, MODROBs. The School is offering Master's programme in Power System Engineering, Power Electronics and Drives and Energy System Engineering. Besides this, the School also offers Ph.D. program in Full Time and Part Time basis.

Objective

This program will teach the participants different AI Techniques and advanced signal processing techniques that will be applied for processing power /transient signals for extraction of different features of voltage and current signal for smooth operation, control and protection of Modern power system integrated with Sustainable Energy Sources.

The utilization of Transmission Line Simulators with PMU, SVC and PDC software, OPAL-RT, MATLAB and HOMER-PRO demonstration tool along with automatic computerized solar sun simulators, wind emulators will be taught to participants for the implementation of digital algorithm that will be applied for control, operation and protection of modern power system integrated with sustainable Energy Sources.

Protection of Smart Grid and Micro Grid will be addressed in the FDP.

Course Contents

- AI and Signal Processing Techniques applied to Power Signals
- Flexible AC Transmission (FACT) Devices and its application in Modern Power System
- Modern Power System, issues and challenges
- Integration of SES and Micro-grid
- Control/Operation Challenges of Modern Power System.
- Protection issues of Transmission System integrated with SES and FACTs devices
- Distribution Generation(DG) and Smart Grid
- Tutorial at Laboratory
- Industrial visit to nearby Industry

Resource Persons

The faculties from reputed institutes like IISc, IITs, NITs, OUTR, Bhubaneswar and from other well known Organization will deliver lectures in this program.

Participants

Faculty members/ Ph.D. Scholars/ PG Students from AICTE approved Institutions are eligible to attend.

Accommodation

External Participants will be provided with lodging and boarding in the nearby Hotels on payment basis on advance request.

TA for Participants

The External participants from AICTE approved Institution travelling beyond 20 km will be provided to and fro train/bus fare through shortest route. The reimbursement of the TA will be made as per AICTE norms

Registration Fee

No Registration fee is charged for participation in the FDP.