

APPLICATION FORM

Name (in block letter):

Age:

Gender:

Address for Communication:

E mail:

Phone/Mobile:

Highest Academic Qualification:

Position held:

Organization:

Address of Organization:

Experience in years:

Signature of the applicant with Date:

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VC, BPUT

PATRON

Prof. (Dr.) Ranjan Kumar Swain

Principal, P MEC

CHAIRMAN

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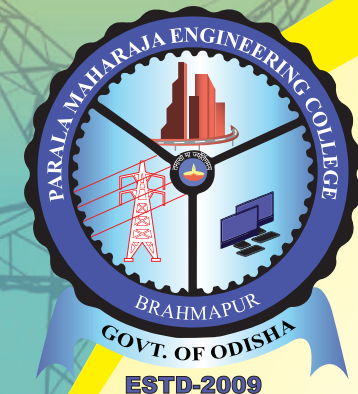
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Prof. Sweta Panda

FACULTY DEVELOPMENT PROGRAM

Recent Trends and Challenges in Smart Grid Environment

9th - 14th December 2019



Organized by
**Department of
Electrical Engineering**
Parala Maharaja Engineering College,
Sitalapalli, Berhampur, Odisha – 761003

Sponsored by

TEQIP-3
Technical Education Quality Improvement Programme

Conveners

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Filled in application form to be mailed to
tkpanigrahi.ee@pmec.ac.in
on or before 7th Dec, 2019

About Us

Parala Maharaja Engineering College (PMEC), Berhampur is the first Government Engineering College (NAAC Accredited) in Southern Odisha. It was established in the Year 2009 as the Constituent College of BPUT, Odisha. Since its inception it has emerged as one of the premier technical institute in the state. The main objective of the institution is to produce quality engineers in various streams. The institute is well known for its well qualified proficient faculties and competent students. At present, the campus spreads over 85 acres which consists of Academic Block, two Workshops, one Multipurpose Utility Block, three Halls of Residences, Open Gym, Playground, Guest House & Staff Quarters. The college offers 9 B. Tech and 7 M. Tech courses.

The silk city Berhampur is located on the eastern coast-line of Odisha. It is one of the oldest cities of the state famous for its silk works, temples and culture. The city is well connected by roads and rails to all parts of our country.

The department of Electrical Engineering has been playing a vital role in producing Engineers and Scientists of highest caliber since its inception in the year 2009. At present, it offers Under Graduate and Post Graduate programs in Electrical Engineering to cater to the ever challenging needs of technical excellence in all areas of Electrical Engineering such as Power Electronics and Drives, Power & Energy System and Power System Engineering. The department is having a vibrant atmosphere due to the combination of input of brilliant students, availability of outstanding faculty members and innovative research work in all areas of Electrical Engineering.

Objective of the Program

Smart-Grid Technologies have evolved to a large scale in recent years. The increase in penetration of renewable energy sources like solar and wind add complexity to the system, which need high end analyzing tools to study and address various issues starting from stability analysis, control, protection, communication, security for effective and reliable operation of the electrical power networks. The smart Electrical power system reduces the impact of present system on the environment by introducing more number of renewable sources. Intelligent technologies are required for decision making, control and optimization to provide a platform for researchers, power system engineers to share knowledge, experience and new ideas.

The objective of the FDP is to train academicians, research scholars. FDP aims to include sessions with high grade lecture Talks and discussions by experts from Academia and Industries, followed by hands on practices on Real Time Simulator and power system simulator software (Mi Power). The major topics to be covered in this workshop are:

- Real time Modeling and simulation of next generation power system.
- Microgrid and IoT based Smart Grid System-Real-time Simulator for Power System (Opal-RT)

- Hands on Practice with examples related to Power System.
- Coordinated protection and control in smart microgrids.
- Arduino based control using Matlab.
- Electric drive simulation (ANSYS)
- Mi Power- Power System Simulation Software (Load Flow, Short Circuit, Transient Studies, Harmonic Analysis).
- Practical Industrial Case Studies & Hands on Practice.

Resource Persons

Experts from IITs, NITs, Industry

