One Week Virtual Faculty Development program on

Operation and Control of Modern Power System

Under

RIT-IEEE Student Branch &
RIT-CTL

RAJARAMBAPU INSTITUTE OF TECHNOLOGY

IEEE
RIT- Student Branch

5th – 10th, February, 2024

Organized by

Department of Electrical Engineering

RAJARAMBAPU INSTITUTE OF TECHNOLOGY
K.E. Society's
Rajarambapu Institute of Technology
Rajaramnagar
website : www.ritindia.edu
Tel : - +91 - 2342 – 220329 , 9970700700,
Fax : - +91 - 2342 – 220989.

Objectives of Training

- Motivate participants for technological innovation and advancement in the operation of modern power system.
- Promote innovation through broad collaboration and the sharing of knowledge.
- Enhance public understanding of engineering and technology and pursue standards for operation and control of modern power system
- Provide trusted source of educational services and resources to support life-long learning
- Provide opportunities for career and professional development
- Inspire a worldwide audience by building communities that advance technical interests, inform public policy, and expand knowledge for the benefit of humanity.

Course Content

- Fundamentals of power distribution system
- Advancement in cutting edge technologies in the field of power distribution system
- Key Challenges to the operation and control of power distribution system.
- AI in power system
- Power system stability
- EV integrated power distribution system
- Smart Technologies for Modern Power System

About IEEE Bombay Section

IEEE Bombay Section was formed on July 13, 1976, from the erstwhile India Section, with Mr. T.V. Balan as its first Chairperson. The initial territory of the Section included the states of Maharashtra, Goa, and Gujarat. While Gujarat and Pune city (in Maharashtra) became separate Sections in 1990 and 2010 respectively, states of Madhya Pradesh (M.P) and Chhattisgarh, as well as the union territory of Diu and Daman, were subsequently added to the Bombay Section's geography. Nagpur in Maharashtra and M.P are the two sub-sections under the Bombay Section. The Section's major activities are led by its standing committees and affinity groups, while the technical events are taken care of very actively by its 14 chapters and societies. WIE and SIGHT groups of the Section work tirelessly in pushing their high-impact activities to the beneficiary groups.

Address for Correspondence

ieee-rit-sb@ritindia.edu (+918947845584)

About the Institute

Kasegaon Education Society's Rajarambapu Institute of Technology (RIT) was established in 1983 with a mission to create techno excellent citizen through academic excellence. RIT is in green belt of Sangli District, Maharashtra State, India. The institute presently offers 7 UG, 12 PG and 3 doctoral programs in various engineering disciplines. Institute has continuous interaction with Industry through in-plant training and live industry-based projects. Institute is funded under World Bank Project named 'Technical Education Quality Improvement Program' (TEQIP II) for PG Programmes and Research driven by innovation.

Salient Features

- An Autonomous Institute affiliated to Shivaji University, Kolhapur and implemented choice based curriculum structure (CBCS).
- The Institute was accredited by NAAC with A+ Grade
- Selected in the first and second phase of TEQIP, MHRD, World Bank Project, New Delhi.
- Institute has active R&D Cell to promote research activities. Institute received research funds from various funding agencies like AICTE, RGSTC, PMYUVA/NIESBUD. Institute is recognized as host for Incubation Centre by MSME.
- Institute has "Pradhan Mantri Kaushal Vikas Yojana" to enable and mobilize a large number of Indian youth to take up skill training and become employable and earn their livelihood.
- Institute has been awarded as "Most Innovative Brand" in Maharashtra by Arthsanket.
- Institute has "Industry-Institute Interaction (III) cell for continuous interaction between academia and industry so as to provides a platform for both the students as well as faculty members to be aware of industry expectations of skill sets required for students.
- Institute has established RIT-TBI cell with vision to transform engineering campuses into ESDM Product Innovation Centers (EPIC) through Industry Partnerships.

About the Department

The department of Electrical Engineering established in 2004 offers undergraduate and the postgraduate programs in Electrical Engineering. It is equipped with state of art laboratories and computational tools. The wind turbine generator emulator and grid tied solar rooftop system with capacity 300 kW are newly developed facilities with the intention to provide academic experience in renewable energy sector for students. All faculty members are experienced researchers who are specialists in their chosen field. Faculty members have completed PhD studies from NITs and other premier institutes and regularly engaged in publishing their research work in reputed international journals. The department regularly conducts training for students and industry people as a part of continuing education. Both UG and PG programs of Dept are accredited by NBA, New Delhi.

About Program

The contemporary power system is a complex electrical network. Planning and operation of such a system under existing conditions, as well as its improvement and future expansion requires an in-depth understanding of the system. The Programme will focus on providing theoretical as well practical aspects of modern trends in the operation and control of power system and thereby enable the participants to promote industry and institute collaborations by working on the current research problems. The participants will be also familiarized with the fundamentals of power distribution system, advancement in cutting edge technologies in the field of power distribution system, Key Challenges to the operation and control of power distribution system, AI in power system, power system stability and EV integrated power distribution system etc. Moreover, the participants will also get an exposure to the ongoing research in the field of power distribution system. The participants will be trained to have an in-depth insight into the modern trends in power distribution system and enable them to understand the feasibility & future scope. Besides, the proposed FDP will provide an excellent opportunity for faculty members and research scholars to have an interaction with nationally and internationally renowned experts in the field of power distribution system.

Patrons

Dr. P. V. Kadole
Director, RIT

Dr. Sachin K. Patil
Dean Academics

Program Coordinators

Dr. Sujil A
Assistant Professor, EE, RIT

Dr. Vaiju Kalkhambkar
Associate Professor, HoD Electrical, RIT

Resource Persons

Faculty members from reputed institutes like IITs, NIT & Reputed Institutions

Registration Details

For IEEE Memebers: FREE

For Non- IEEE Members: Rs. 150/-

Online Registration Link- Please Click Here or
(https://forms.gle/w1jBmXjcScpCJNPN6)

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You can Pay using QR code

Our Speakers

Dr. Rajesh Kumar
Professor, National Institute of Technology Jaipur, Rajasthan, India
Topic: Smart Technologies for Modern Power System
Date: 05-02-2024 Time: 4:00-6:00PM

Dr. P K Katti
Professor, College of Engineering, Pune
Topic: Electric power Grid Modernization Trends, Challenges, and Opportunities
Date: 06-02-2024 Time: 4:00-6:00PM

Dr. Sachin Sharma
Assistant Professor
Electrical Engineering Department
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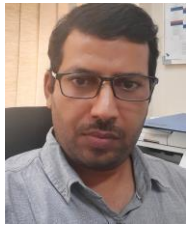
Topic: Operational issues of smart power distribution system
Date: 07-02-2024 Time: 4:00-6:00PM

Dr. Rajvir Kaur
Assistant Professor, NIT Puducherry
Topic: EV Applications in Modern Power System
Date: 08-02-2024 Time: 4:00-6:00PM

Dr. Saurabh Ratra
Assistant Professor, Electrical Engineering & IT, Punjab Agricultural University
Topic: Recent Advancement in Modern Power System Operation
Date: -09-02-2024 Time: 4:00-6:00PM



Dr. Manoj Kumawat,
Assistant Professor
NIT Delhi
Topic: Planning of Distributed Energy Resources in the Distribution System
Date: -10-02-2024 Time: 4:00-6:00PM