

In association with School of Electrical Engineering (SELECT)

Cordially invites you to

**5 Days FDP (10.00 AM - 5.00 PM)**

Faculty Coordinators : Dr. Vijaya Priya R, Dr. Washima Tasnin, Dr. Brisilla R M

Online

## Smart Grid Features and Application of IoT, AI, Blockchain and Cybersecurity in Smart Grid

### Resource Persons :

- **Dr Sreejith S**, National Institute of Technology, Silchar.
- **Dr Suman M**, Motilal Nehru National Institute of Technology, Allahabad.
- **Dr Rajan Singaravel M M**, National Institute of Technology, Puducherry.
- **Dr Daravath Kishan**, National Institute of Technology Karnataka, Surathkal.
- **Dr Vijayakumar Krishnasamy**, IIITD&M Kancheepuram.
- **Dr. Vijaya Priya R**, VIT, Vellore.
- **Dr. Arun S L**, VIT, Vellore.
- **Dr. Washima Tasnin**, VIT, Vellore.
- **Dr Gerard Deepak**, MIT Bengaluru.
- **Dr Gopalakrishnan T**, MIT Bengaluru.
- **Dr Vinothkumar K**, Hitachi Energy Chennai.
- **Dr Noor Mahammad SK**, IIITD&M Kancheepuram.
- **Dr Shanmugakumar Murugesan**, Modern Agriculture Technology Innovation Center (MATIC), Salem.
- **Dr Soumya Samanta**, Tezpur University, Tezpur.
- **Dr M Raju**, MANIT Bhopal, Tezpur.

### Discussion Points :

- Introduction to Smart Grid
- Microgrid Implementation and Control
- Inertia Emulation iControl n Microgrid
- Microgrid Frequency Regulation
- Islanding Detection for Microgrid
- Integration of Renewable Energy Resources in Smart Grid
- Electrical vehicles in Smart Grid
- Bidirectional Wireless Power transfer for Electric Vehicles in V2G and G2V Applications
- Peer-to- Peer Energy Transaction in Smart Grid
- Introduction to Machine Learning
- Application of Machine Learning and Artificial Intelligence in Smart Grid
- Need for IoT in Smart Grid
- Communication Protocols in Smart Grid
- Concepts of Blockchain Technology
- Cyber Security in Smart Grid
- IoT and Blockchain Technology for Smart Grid
- IoT Network Security for Smart Grid

**10-14 Oct - 2022**  
**(Monday – Friday)**

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