KTU SPONSORED ONE WEEK ONLINE FACULTY DEVELOPMENT PROGRAMME
ON
"Power System Security and Internet of Things: A Future Energy Scenario"

15th - 19th March 2021

Organized by: **Department of Electrical and Electronics Engineering**

SREE BUDDHA
COLLEGE OF ENGINEERING
PATTOOR. P.O ,ALAPPUZHA

Affiliated to APJ Abdul Kalam Technological University

NACC accredited institution and NBA accredited Programs

Platform: Google Meet

ABOUT THE COLLEGE

Sree Buddha College of Engineering, Pattoor is established in 2002 by Sree Buddha Educational Society,Kollam,which is registered under the Travancore Cochin Literary Scientific and Charitable Societies Act,1955. Under the leadership of Prof. K. Sasikumar, a group of educationalists envisaged the emergence of an emerging college on the bank of Karingali puncha in the rural area of Nooranad. The birds village of kerala, to promote weaker section of society by providing quality education at global standards. The college which began its stride with three B tech programmes in 2002, now offers B.Tech, M.Tech/ PhD programmes in six branches of Engineering and Technology.

The College is affiliated to APJ Abdul Kalam Technological University and is approved by the All India Council for Technical Education (AICTE), New Delhi. The college is accredited by NBA in four Engineering programmes and is reaccrediated by NAAC for another five years since November 2019. The college is also recognized under Section 2(f) of the UGC act,1956.

ABOUT THE DEPARTMENT

The Department of Electrical and Electronics Engineering was established in 2004, the sixth department of this college with an annual intake of 60 students. The Degree offered is B Tech in Electrical and Electronics Engineering. An M Tech programme in Electrical Machines was started in 2014 with an annual intake of 24 students. The department is dedicated to the promotion of excellence in Engineering Education imparting knowledge to the students in the field of Electrical and Electronics Engineering so that they can successfully complete their graduation and get proper placement. The laboratories are well equipped for the conduct of the existing courses. The facilities available in the department are sufficient to meet the requirements of B Tech and M Tech project works. The department has excellent contact with the neighbouring industries like KSEB , NTPC etc.

ABOUT THE PROGRAMME

The security and reliability of the electrical energy infrastructure is of vital importance today, since electric powered technology has become embedded in all human activities. Protecting the electrical power supply system against interruptions due to various faults is thus a main concern. In todays world, the technological trend of implementing "smart" technologies, fostered by the emergence of cloud computing and IoT, led to a transfiguration of ordinary devices and environments to "smart" entities

The concept of IoT in power system (IOTIPS) is set forth using IoT and RFID techniques. IOTIPS is an intelligent network based on network, data base and communication technologies. Its application will significantly improve the power system stability and security, as well as protect the environment and meet the sustainable development requirements.

Similarly, IoT can play a significant role in developing smart grids which eventually leads to energy saving. IoT enabled smart grids are more focused on the energy efficiency and management of energy consumption at the lowest cost.

This FDP aims to give the faculties an insight to the definition, functions, contents and the key technologies of IoT. The programme aims at delivering the fundamental concepts and advanced knowledge about IoT enabled smart grid.

TOPICS

- A brief introduction to Power System Security
- IoT Technologies
- Enhancement of power system stability using IOTIPS
- IoT based Energy Management System in Electric Vehicles
- Architecture and key technology of IoT enabled smart grids
- Power System: A Cyber Physical Entity
- Application of IoT in home automation
- Sensor and Protocol for Integration with Hardware
- Real Time Sensor Data Monitoring & Measurement
- Application of Cloud Computing in Smart Grid Using AWS and nodered

ELIGIBILITY

Faculties from various AICTE approved Engineering colleges / Institutions, Industry personnels, post graduate students, research scholars, engineers, scientists etc. are eligible for attending this programme

RESOURCE PERSONS

- **Dr. R M Shereef**
  College of Engineering, Trivandrum

- **Prof. Joaquim Ignatious Monteiro**
  College of Engineering, Trivandrum

- **Dr. Prince A**
  Rajiv Gandhi Institute of Technology, kottayam

- **Prof. Nandan G**
  Sree Buddha College of Engineering, Pattoor

- **Dr. V Karthikeyan**
  National Institute of Technology, Calicut

- **Dr. Santhoshkumar Hampannavar**
  REVA University, Bangalore

- **Dr. Dileep G**
  Govt.Engineering College,Idukki

- **Er. Nebu Palickal**
  OPZET Solution Pvt.Ltd

- **Er. Baism Basheer**
  RF Engineer

REGISTRATION

Registration is free for all participants. Interested candidates can do registration using the following link:

https://forms.gle/3q8NmWjm7D6Zgnmm7

(Last date of registration : 12th March 2021)

Session Through: Google Meet

CHIEF PATRON

- **Prof. K Sasikumar**
  Chairman
  Sree Buddha Educational Society

PATRONS

- **Dr. K B Manoj,** Secretary
- **Sri K K Shivadasan ,**Treasurer
- **Dr. K Krishnakumar,** Principal
  Sree Buddha College of Engineering, Pattoor

PROGRAMME COORDINATORS

- **Prof. Vinod V P**
  HOD, Dept. of EEE
  Sree Buddha College of Engineering, Pattoor
  Ph No:9048260799

- **Prof. Athira B**
  Assistant Professor, Dept. of EEE
  Sree Buddha College of Engineering, Pattoor
  Ph No:9995345232

The best way
to predict the
future
is to design it