

KURUKSHETRA

Kurukshetra is described as DHARAMKSHETRA, with historical and religious importance. Here, the battle of Mahabharata was fought, and Lord Shree Krishna preached the philosophy of "KARMA" as enshrined in the holy book "Shrimad Bhagwad Gita." It is one of the premier pilgrimage center attracting devotees all round the year. Kurukshetra is very well connected by Rail, Delhi-Ambala section, by Road (NH1, connecting Delhi-Chandigarh-Amritsar-Jammu) and by Air (Delhi 160 km and Chandigarh 80 km). The NIT Kurukshetra campus is situated about 10 km from Pipli, Bus stand located on NH1 and about 4 km from Kurukshetra railway station.

NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA

NIT Kurukshetra, formerly known as Regional Engineering College, Kurukshetra was founded in 1963. It was conferred upon the NIT status, with Deemed University on June 26, 2002. The Institute offers several courses, in various disciplines of B.Tech., M.Tech., MBA and MCA and Ph.D. with an annual intake of about 1500 students. Institute also provides excellent facilities for advanced research in the emerging areas of Engineering, Science, and Technology. The institute has well qualified and dedicated faculty along with supporting staff, laboratories and other infrastructure. The infrastructure is geared to enable the institute to produce technical personnel of high quality.

ELECTRICAL ENGINEERING DEPARTMENT (EED), NITK

The department offers B.Tech, M.Tech and Ph.D. Degrees. The B.Tech. course in Electrical Engineering provides is run with a number of electives, which enables the students to specialize in one of the fields i.e. Power Apparatus and Systems; Electronics and Instrumentation; Computer Applications; Information and Control. Presently, the department has three post graduate programs, M.Tech., in Control Systems; Power Systems; Power Electronics and Drives and offers Ph.D. in different areas to keep synergy with the evolving innovations and developments in all disciplines of Electrical Engineering.

PATRON

Padma Shri Dr. Satish Kumar,
Director, NIT Kurukshetra

CO-PATRON

Dr. L. M Saini,
Professor and Head, EED, NIT Kurukshetra

COURSE CONVENER

Dr. Ashwani Kumar,
Professor, EED Department

COURSE COORDINATOR

Dr. Atma Ram Gupta,
Asstt. Prof., EED Department

Dr. Amit Kumar,
Asstt. Prof., EED Department

IMPORTANT DATES:

- Last date for submission of registration form: **24th July, 2020.**
- Intimation of selection (on website or by email): on or before **26th July, 2019.**

List of selected participants will also be displayed on the institute website.

Address for Correspondence:

Convener SGOPRES-2020
Electrical Engineering Department,
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TEQIP-III Sponsored

On line

Short Term Course

on

Smart Grid: Operation & planning with Renewable Energy Sources and FACTS

(SGOPRES-2020)

(29 July – 02 August 2020)



Organized by

Department of Electrical Engineering,
National Institute of Technology
Kurukshetra
Kurukshetra-136119, Haryana, India

COURSE OBJECTIVES

The utilities all over the world are shifting the paradigm of the electricity operation from the conventional operation to complete automated system. With renewable energy sources integration, the operation of the electricity sector has changed the facets of operation from passive to active distribution systems. In addition, the storage devices like SMES, Super capacitors, pumped hydro etc. are playing key role for the sustainable operation of the system with renewable sources. With the advent of the electrical vehicles, the operation of the system will require analysis for efficient and secure operation of the distribution systems. Since the non-linear loads are increasing day by day, there are harmonic issues that need to be addressed for better energy utilization. In this context, smart grid will provide better solution of the network operation. This short-term course will provide opportunity to enhance the knowledge of the faculty, students, research scholars and interaction with the renowned faculty members for planning the research and projects in the area of smart grids.

COURSE CONTENTS

The course aims to address the following issues related to the modern power systems, but not limited to them. The objective of the course is to share with the participants technology developed on:

- **Smart Grid Fundamentals**
- **Wide Area Monitoring & Control of Power System**
- **Energy management system and distribution automation**
- **Power System automation and management**
- **Renewable sources based AC/DC microgrids**
- **Distribution System Analysis and Optimization**
- **Demand response and home energy management system**
- **Microgrid and Microgrid Protection Issues**
- **Energy storage Devices Integration, Electrical Vehicles in Power Grid**

RESOURCE PERSONS

Eminent experts from premier Institutions of India like IITs, NITs, IISC, and experts from Industries will deliver lectures. Tentative experts who will deliver lectures will be from IITs, NITs etc. The experts will deliver talk in that area of smart grid technology, wide area monitoring, AC/DC microgrid and protection, Distribution system with RES and Electrical Vehicles and storage devices.

WHO SHOULD ATTEND?

Faculty members/ research scholars/ students from academic institutes approved by the AICTE/ UGC/ MHRD and Scientists/ Engineers working in Private/ Public/ Govt. organizations/ industries etc. can attend the course. The application should be made on the registration form and should accompany registration fee as below:

Participant's category	Registration fee*
Students/ Research Scholars	Rs. 300/-
Faculty	Rs. 500/-
Industry/ R&D / Govt. Organization	Rs. 1200/-

* **Registration fee is non-refundable**
Registration fee includes course e-certificate.

Participants will be selected on first-come-first served basis. The registration form, complete in all respects, accompanied by Online details of the requisite amount should reach on or before 24th July, 2020.

Registration fee is to be paid in advance through Online in Director, NIT Kurukshetra A/c No. 10116885013; IFSC: SBIN0006260. **Please write the short name of STC (SGOPRES-2020) in remarks during online payment.**

The brochure with registration form can be downloaded from Institute website www.nitkr.ac.in.

The candidates can fill the form from link

<https://forms.gle/Gz3eL3MxPcEgJV5p8>

The soft copy of the completed application forms along-with the payment receipt should be sent to the e-mail address mentioned in the brochure.

REGISTRATION FORM

TEQIP-III sponsored Online Short Term Course on

'Smart Grid: Operation & planning with Renewable Energy Sources and FACTS'

(29 July – 02 August 2020)

Title: (Dr./Mr./Mrs./Ms.) :
Name (in BLOCK LETTER) :
Sex (M/F) :
Date of Birth: (dd/mm/yyyy) :
Designation :
Organization :
Address for correspondence :
Phone :
E-mail :
Qualification :
Category (Please Tick) : Students/ Faculty/ Industry/ R&D / Govt. Organization
Payment details :
Online Details :
Date :
Issuing Bank :
Amount :
Signature of applicant (with date):