

About Kurukshetra

Kurukshetra, steeped in history and mythology, is a place of great spiritual significance, where Lord Krishna, delivered the divine message of "Shrimad Bhagwad Gita". It is one of the premier centre of pilgrimage attracting devotees in a steady stream all-round the year. Kurukshetra is a very well connected by Rail (Delhi-Karnal-Ambala section), by Road (NH1 which connects Delhi-Chandigarh-Amritsar-Jammu) and by Air (Delhi 160 Km and Chandigarh 80 Kms). The NIT Campus is about 10 km from Pipli situated on NH1 and about 4 km from Kurukshetra railway station.

About National Institute of Technology Kurukshetra (NITK) (Institution of National Importance)

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

About the Electrical Engineering Department (EED), NITK

The department runs a generalized and integrated course in B.Tech. with number of electives offered to students in order to enable them to specialize in one of the fields i.e. Power Apparatus and Systems; Electronics and Instrumentation; Computer Applications; Information and Control. Presently the

department runs three post graduate (M. Tech.) programmes 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.

About the Electronics and Communication Engineering Department (ECED), NITK

The Department offers 4 year B. Tech program in ECE with various electives leading to sub-specialization in Communication, VLSI, Signal and image processing etc. M. Tech and PhD program are offered to provide opportunity to the students to do research in various niche areas of ECE stream. Various research projects from MHRD and DRDO are being pursued in the Department. The Department endeavours to provide interdisciplinary support to various engineering streams for exploring various applications of ECE.

Patron

Padma Shri Dr. Satish Kumar, Director, NITK

Co-Patron

Dr. Ratna Dahiya, Professor and Head, EED, NITK

Course Coordinators

EED: Dr. Monika Mittal and Dr. Shelly Vadhera

ECED: Dr. Vikas Mittal, HOD

Important Dates

Last date of Registration: July 10, 2017 **July 13, 2017**
Notification about Selection: July 11, 2017 **July 14, 2017**

Registration form should be sent to:

S3PC-2017, Electrical Engg. Deptt., NITK - 136119
Soft copy via email: s3pc2017nitk@gmail.com
Mobile: +919315303029, +919416377796

Short Term Course On SIGNAL PROCESSING IN POWER SYSTEM PROTECTION AND CONTROL (S3PC-2017) (July 17-22, 2017)



Jointly Organized by

**Department of Electrical Engineering
&
Department of Electronics and Communication
Engineering
National Institute of Technology Kurukshetra
Kurukshetra-136119, Haryana, India**

REGISTRATION FORM

Short Term Course on

Signal Processing in Power System Protection and Control

July 17-22, 2017

Name: _____

Date of Birth: _____

Designation: _____

Organization: _____

Address for correspondence: _____

Phone: _____

E-mail: _____

Qualifications: _____

Experience: _____ Years

Accommodation required*: Yes / No

*AC/Non-AC

Payment details:

Draft/Online Details with date: _____

Issuing Bank: _____ Amount: _____

(Signature of applicant)

Sponsoring Authority:

Name: _____

Designation: _____

Organization: _____

Recommended: _____

Signature of Head of Department/School/Institute

Course Objectives

Electricity is one of the most important blessings that science has given to mankind. It powers the Earth and without electricity, we'd be back in the dark ages. The electrical power system is one of the most complex and expensive system ever constructed by man. As electricity cannot be stored, so it is consumed the instant it is generated. Failing to preserve this equilibrium (lack of generation, faults, poor planning) leads to an instability of the system or in the worse case to a blackout with very dire economic consequences. Effective protection through automated control plays a central role in its prevention.

Automation necessitates the use of electronics and signal processing techniques. Hence, there is a need of interdisciplinary research efforts both by electronics, control and power community in line with the demands of the industry. This course will help in disseminating required research issues and techniques to the participants enabling them to identify important problems to be taken up in academia to bridge industry-academia gap.

Course Contents

- Perspective on signal processing
- Fundamentals of system analysis
- Wavelet theory of sub-band decompositions
- Multi Dimensional Signal Processing
- Adaptive filters and applications
- Electronic circuits for protection and control
- Model predictive control
- Signal Processing for smart grids
- Digital control of electric drives
- Grid integration of renewable energy resources

Who should attend

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

<u>Participants category</u>	<u>Registration fee (Rs)</u>
PG/PhD Students	500/-
Faculty	1500/-
Industry	3000/-

Participants will be provided meals, tea during the sessions. However, accommodation can be arranged in hostel / guest house on nominal payment basis subject to the availability. No TA/ DA will be paid to the participants. Participants will be selected on first-come-first served basis up to a maximum of 30. The registration form, complete in all respects, duly forwarded by the Head of the Department/School/Institute, accompanied by Demand Draft/Online details of requisite amount should reach on or before **July 10, 2017** **July 13, 2017**. Registration fee is to be paid in advance through a bank demand draft in favour of “**Director, NIT Kurukshetra**” payable at **SBI, NIT Kurukshetra** or online through **SBI Collect**.

The brochure with registration form can be downloaded from Institute website www.nitkkr.ac.in and course website

<https://sites.google.com/site/s3pc2017>

Excellent and Rewarding Sponsorship Opportunities for industry/vendors: For details visit course website