

Objective

Most of the real dynamical systems are nonlinear in nature. These systems range from mechanical, chemical, aerospace, biomedical, energy, communication and robotics. Nonlinear system may typically be stable for one input or initial condition and unstable for another. There is need to focus the system attention and input or output combinations rather than on the system alone. In order to study such systems, mathematical tools have been developed for analysis and control. Nonlinear controllers handle the nonlinearities in large range operation directly. Nonlinear system control deals with analysis and design of systems containing at least one nonlinear component. Advanced study and research in above areas involve consideration of nonlinear models, analysis, control and computational tools. The aim of this course is to focus on basic concepts of nonlinear system behaviour, analysis and control methods. Also, computational tools, applications and open issues will be discussed.

Program Tentative Coverage

- Introduction to Nonlinear Systems
- Nonlinear System Analysis Techniques
- Nonlinear System Control
- Sliding Mode Control
- Adaptive Control
- Optimal Control
- Computational Tools
- Applications

Eligibility

The program is open to the interested Faculty Members, Ph.D. Research Scholars of Engineering Institutions and Professionals from Industry/Research Organizations working in concerned/allied discipline.

Registration Fee Details

The registration fee per participant is as under:

Research Scholars:	Rs. 1000/-
Faculty Members:	Rs. 3000/-
Professionals from Industry/Research Organizations:	Rs. 5000/-

The registration fee includes boarding and lodging at NIT campus, and course material if any. No TA/DA is payable to the participants. Registration form in the prescribed format, along with the registration fee in the form of D.D. in favour of "Director NIT Kurukshetra", payable at SBI, NIT Kurukshetra (6260), should reach on or before 30th April, 2016 to any of the Coordinators (cc to other Coordinator also).

There will be about 30 seats for this Program. The interested Faculty/ Professional / Research Scholar may express his / her intent through email within a week and apply with draft in due course (email with scanned copy).

Important Dates

Last date for Registration form and fee submission:
30.04.2016

Intimation of acceptance by email: 02.05.2016

About the Department

The Department of Electrical Engineering of NIT Kurukshetra has 36 faculty members, most of them are holding Ph.D. degree from renowned institutes in India. The department offers a B. Tech. program in Electrical Engineering, three M. Tech. programs in Control Systems, Power Systems, and Power Electronics & Drives, besides the Ph.D. program. The department has successfully executed and is currently executing several R&D and consultancy projects. The department has good computing infrastructure. About 10 faculty members of the department have been working in the area of Control Systems.

REGISTRATION FORM SHORT TERM TRAINING PROGRAM

On
Nonlinear Systems and Control
May 16-20, 2016

NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA

1. Name :
2. Designation and Official Address:
.....
.....
3. E-mail:.....
4. Mobile No.:
5. Educational Qualification with Specialization:
6. Experience:
7. Whether institute is under TEQIP- II:
.....
8. Details of registration fee:
Amount(Rs.):..... DD No.:.....
Dated:Bank:.....
9. Accommodation required: Yes/No

Signature of Applicant

Signature of Head of Dept./Inst./Org.
(with official seal)

**SHORT TERM TRAINING
PROGRAM
On
Nonlinear Systems and Control
May 16-20, 2016**



**DEPARTMENT OF
ELECTRICAL ENGINEERING
National Institute of Technology
Kurukshetra**

Sponsored by: TEQIP-II

Coodinators:

Prof. A. Swarup
Prof. Sathans

About the Institute and Kurukshetra

National Institute of Technology Kurukshetra is a premier institute of the country, has emerged a centre of technical education and research. The academic programs of the Institute cover a wide range of science and engineering disciplines. Presently the Institute offers seven B. Tech., twenty two M. Tech., MCA, MBA and Ph. D. programs in all the disciplines. The Institute has intake of about 1,500 students per year. NIT Kurukshetra has good infrastructural and research facilities in emerging areas. The faculty of the Institute has notable achievements in technology development, patents, high quality research output, consultancy and professional awards/recognitions.

Kurukshetra is a place of great historical and religious importance, revered all over the country for its sacred association with the Vedas and the Vedic Culture. It was here that the battle of Mahabharat was fought and Lord Krishna preached his Philosophy of 'KARMA' as enshrined in the Holy Bhagwad-Gita, to Arjuna at Jyotisar. According to Hindu mythology, the Kurukshetra is spread over, a circuit of about 48 KOS which includes a large number of holy places, temples and sacred tanks connected with the religious events/rituals. Kurukshetra is a railway station junction on the Delhi-Karnal-Ambala section of the Northern Railway. It is about 160km from Delhi. The Institute campus is about 10km from Pipli, a well known road junction on the Sher Shah Suri Marg(NH-1) and about 5km from Kurukshetra Railway Station. Interesting places to visit near Kurukshetra are Chandigarh, Shimla and Haridwar.



Contact Details

Coordinators

Prof. A. Swarup

Dept. of Electrical Engineering
National Institute of Technology Kurukshetra
Phone: 01744-233375(O); 9416266610(M)
Email: aswarup@nitkr.ac.in

Prof. Sathans

Dept. of Electrical Engineering
National Institute of Technology Kurukshetra
Phone: 01744-233390 (O); 9416334934(M)
Fax: 01744-238050
Email: sathans@nitkr.ac.in
sathans@rediffmail.com