PROGRAM OBJECTIVES

Engineering system analysis and control remains an interdisciplinary field and involves design and management of complex engineering systems. System Engineering deals with work-processes, optimization tools and management tools for successful system development. The systems may belong to different domains such as mechanical, chemical, aerospace, biomedical, energy, communications, robotics and automation.

Control of real life systems is inherently complex owing to their time-varying and nonlinear nature. Local linear controllers as well as nonlinear controller are employed to fulfill desired control objectives. In addition, heuristics based soft computing technique prove beneficial for such systems. The program is planned to include discussions on some of the following and other aspects of robotics systems:

- Modeling from First Principles
- Identification & Estimation of Systems
- Modeling Robotic Systems
- Uncertain models: Robustness analysis and robust control.
- Analysis of Robotic Systems for Stability and Performance
- Soft Computing techniques
- Problem formulation in terms of LMIs
- Classical and Heuristic Optimization Techniques
- Extensions to nonlinear systems.

Intended Audience:

The program is open to the interested Faculty Members, Ph.D. Research Scholars, Postgraduate students of M.Tech. / MS by research in 2nd year of the course, Project Staff / Research Staff involvedwith various government / industry sponsored projects in Engineering Institutions / Universities, and Professionals from Industry/Research Organizations working in concerned/allied discipline.

Registration Fee Details

The registration fee per participant is as under:

Faculty Members and Part Time Research Scholars:	Rs. 2000/-
Full Time Research Scholars/ Project Staff:	Rs. 1000/-
Professionals from Industry:	Rs. 2500/-
M.Tech. / MS Scholar (2nd Year only)	Rs. 500/-

The registration fee includes working lunch and course material for all participants. Lodging for outstation participants at NIT campus may be provided on payment basis subject to availability of the seats in Hostel/Guest House/Faculty House.

No TA/DA is payable to the participants.

Registration form in the prescribed format, along with the registration fee in the form of Demand Draft/NEFT in favor of "Director, NIT Kurukshetra" payable at SBI, NIT Kurukshetra (SBIN0006260) and should reach on or before 14th, Feb 2018 to the coordinator.

There will be about 30 seats for this Program. The registration shall be offered on first come first serve basis. The interested Faculty/ Professional/Research staff and scholars may express his / her intent through email with scanned copy of registration form. Confirmation shall be sent on receipt of hard copy of duly filled registration form along-with program fee by post/hand.

Important Dates

Last date for Registration:	14.02.2018
Last Date for Intimation of acceptance:	15.02.2018

About the Coordinating Departments

The Department of Electrical Engineering, NIT Kurukshetra has rich faculty with research interest in the areas of control systems, power systems, power electronics, electric drives, system engineering and reliability, signal processing, renewable energy and integration etc.

The course shall further benefit from the expertise available in mathematics department for modeling, analysis and control of systems.

REGISTRATION FORM

One Week Short Term Course on System Analysis, Optimization and Control (Feb 17th to 22nd , 2018)

Name: _____

Designation: _____

Organization: _____

Address for Correspondence: _____

_____

Phone: _____

E-mail: _____

Qualifications: _____

Accommodation required: Yes/No

Payment Details: Draft No.: _____

Issuing Bank: _____

Amount _____Drawn on_____

(Signature of applicant)

Sponsoring Authority:

Name: _____

Designation: _____

Organization: _____

Recommended: _____

Signature of Sponsoring Authority with Seal

ONE WEEK SHORT TERM COURSE

on

System Analysis, Optimization and Control

Feb 17th – 22nd , 2018

PATRON

Padam Shree Dr. Satish Kumar

Director, NIT Kurukshetra

COURSE ADVISOR

Prof. Sathans

Department of Electrical Engineering

COORDINATORS

Dr. Anil Kumar Dahiya, Asst. Prof., EED

Dr. Naveen Kumar, Asst. Prof., Mathematics

Convener

Prof. J. S. Lather, Prof. EED

DEPARTMENT OF ELECTRICAL ENGINEERING

National Institute of Technology

Kurukshetra-136119 INDIA

About the Institute and Kurukshetra

National Institute of Technology Kurukshetra as a premier institute of the country, has emerged as a center of technical education and research. The academic programs of the Institute cover a wide range of science and engineering disciplines.

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. Historically, during medieval period, Thanesar, the old name of Kurukshetra city, was the seat of power of King Harshwardhana.

Kurukshetra is well connected with rail/road. The Kurukshetra Railway Junction is on Delhi-Ambala section. It is situated on National Highway No. 44 connecting New Delhi to Ambala. The approximate distance of the place is 160 km from Delhi and 100 km from Chandigarh. Pipli is the place on NH-44 to get down for NIT Kurukshetra and a 10 km drive by Auto or Cab takes one to NIT Kurukshetra. Nearby airports are Chandigarh and New Delhi.

Shimla, Kasauli, Morni Hills are nearby Hill stations for weekend leisure.

NATIONAL INSTITUTE OF TECHNOLOGY, KURUKSHETRA

COURSE CONVENER:

Dr. J. S. LATHER

Professor, Electrical Engineering

National Institute of Technology, Kurukshetra – 136119

Mob: 9467500101 Email: jslather@nitkkr.ac.in

COURSE COORDINATORS

Dr. ANIL KUMAR DAHIYA

Assistant Professor, Electrical Engineering

National Institute of Technology, Kurukshetra – 136119

Mob: 9616039964 Email: anildau@yahoo.co.in

Dr. Naveen Kumar

Assistant Professor, Dept. of Mathematics

National Institute of Technology, Kurukshetra – 136119

Mob: 9997876560 Email: navindma@gmail.com

How to reach NIT Kurukshetra from Pipli on NH 44