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**MHRD/AICTE Sponsored Short Term Course on
“Estimation and Control: Advanced Theory and Applications”
December 25-30, 2009**

Course Co-ordinators:
Dr. Alok Kanti Deb
Prof. Siddhartha Mukhopadhyay

Organized by:
Department of Electrical Engineering
IIT Kharagpur
Kharagpur-721302. India

Introduction

The short term course on “Estimation and Control: Advanced Theory and Applications” sponsored by MHRD/AICTE, is being organized by the Department of Electrical Engineering, IIT Kharagpur from Dec 25-30, 2009. The purpose of the course is to facilitate focused interaction and exchange of experiences and ideas of the scientists in different academic and R & D organizations and deliberate on future research directions.

The course has been designed to introduce the different facets of advanced estimation and control techniques and their applications. Topics have been chosen to have a well rounded discussion on most important aspects of estimation and control during the course. Eminent scientists and academics from various organizations from within the country and abroad are expected to deliver invited talks. The course also intends to introduce to the participants real-world applications of these advanced concepts made in India on Aerospace, Atomic Energy, VLSI design and other areas.

Course Contents and Resource Persons

Signals and Systems

Goshaidas Ray, IIT Kharagpur

Estimation Fundamentals

Siddhartha Mukhopadhyay, IIT Kharagpur

Nonlinear Dynamics

Soumitra Banerjee, IISER, Kolkata

Robust Control

Shankar P Bhattacharyya, Texas A & M University, College Station, USA

Periodic Control

Sarit K Das, IIT Kharagpur

Missile Control Systems

Abhijeet Bhattacharyya, DRDL, Hyderabad.

Control System Testing and Validation

Subir K Chaudhuri and Pulak Halder, RCI, Hyderabad

Nuclear Reactor Control

Akhiland P Tiwari, BARC, Mumbai

Dynamics and Control of Switching Converters

Amit Patra, IIT Kharagpur

Sensor Fusion Application in Target Tracking, Fault Diagnosis and Image Analysis

Srabani Ghosh, Siddhartha Mukhopadhyay and Aurobinda Routray, IIT Kharagpur.

Participants

Faculty of AICTE approved technical institutes are the major intended participants along with possible others from Industrial, and R & D organizations.

Course Fees

Type	Fee
Selected candidates from AICTE approved Institutes	NIL
Other Academic Institutes	Rs 10,000/-
Industrial, R & D Organization	Rs 15,000/-

Application

Envelope superscribed as “Estimation and Control: Advanced Theory and Applications” containing the filled in application form with demand draft (as applicable) in favour of “CEP-STC, IIT Kharagpur”, payable at Kharagpur should be sent to the Course Co-ordinator within the deadline.

Download Application Form

Contacts

The Course Co-ordinator

“Estimation and Control: Advanced Theory and Applications”

Department of Electrical Engineering

IIT Kharagpur

Kharagpur – 721302. India

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smukh@ee.iitkgp.ernet.in

tel: (03222) 283056

(03222) 283066

fax: (03222) 282262

Note

1. Due to limitation on the number of seats, organizers will select the candidates. The selected candidates will be intimated.
2. Partial reimbursement for accommodation expenses would be made only to selected participants of AICTE approved institutions.
3. TA restricted to AC III class by the shortest route will be reimbursed only to selected participants of AICTE approved institutions.
4. Limited accommodation is available in campus. On request, the organizers would try to accommodate participants in nearby hotels and/or student hostels as per their preference and availability.

Important Dates

Last date of receipt of filled-in application form: November 25, 2009

Course dates: December 25-30, 2009

IIT Kharagpur Campus

Kharagpur is known world over for two landmarks. One, the longest railway platform in the world and the other, the Indian Institute of Technology, more commonly known as IIT. Situated about 116 km west of Kolkata, Kharagpur can be reached in about 2 hours by express trains from Howrah railway station near Kolkata or 3 hours by car from Dum Dum airport, Kolkata. Kharagpur is also connected to most major cities of India by train services. The institute is about 10 minutes drive (5 km) from the Kharagpur railway station. Private taxi, auto-rickshaw or cycle-rickshaw can be hired to reach the Institute.