

## REGISTRATION FORM

AICTE Sponsored  
One Week Short Term Course on

### ADVANCED CONTROL THEORY FOR ELECTRICAL ENGINEERING APPLICATIONS

13<sup>th</sup> to 19<sup>th</sup> October 2014

(Under QIP Program)

Name :

D. O. B. :

Gender : Male  Female

Qualification :

Designation :

Organization :

Years of experience :

Mobile :

E-mail id :

Accommodation required : Yes  No

Signature

Head of the Institution  
(Signature with office seal)

## ORGANIZING COMMITTEE

Chief Patron : **Dr. S. R. K. Prasad**  
Correspondent, CIT.

Patron : **Dr. R. Prabhakar**  
Professor Emeritus & Secretary, CIT.

President : **Dr. V. Selladurai**  
Principal, CIT.

Chairperson : **Dr. S. Vasantharathna**  
Prof. & HOD, EEE, CIT.

Coordinators : **Dr. V. Manikandan**  
Professor, EEE, CIT.

**Dr. A. Kavithamani**  
Assistant Professor, EEE, CIT.

### IMPORTANT DATES :

Last Date for receipt of Application

(a) From Academic Institutions:

**30<sup>th</sup> September 2014**

(b) From Industries/Govt. Departments:

**3<sup>rd</sup> October 2014**

***Intimation of selection : 5<sup>th</sup> October 2014***

Address for Registration and Correspondence :

**Dr. A. Kavithamani,**

Coordinator – ACTEEA

Assistant Professor, Department of EEE

Coimbatore Institute of Technology

Coimbatore - 641 014, Tamil Nadu

E-mail : [acteea2014@gmail.com](mailto:acteea2014@gmail.com)

Mobile : +91 90424 89301



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**Co-ordinators**

**Dr. A. Kavithamani**

**&**

**Dr. V. Manikandan**

**Organized by**

**DEPARTMENT OF ELECTRICAL AND  
ELECTRONICS ENGINEERING**

**COIMBATORE INSTITUTE OF TECHNOLOGY**

(Government Aided Autonomous Institution)

COIMBATORE – 641 014

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Webpage : [www.cit.edu.in](http://www.cit.edu.in)

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One Week Short Term Course on**

**ADVANCED CONTROL THEORY FOR  
ELECTRICAL ENGINEERING  
APPLICATIONS**

**OBJECTIVES**

- To identify and recognize recent accomplishments in control systems research, to highlight new research directions and challenge problems for electrical engineering.
- To handle the design gap existing between the complex physical system under investigation and the model used in control system synthesis effectively while accomplishing necessary tradeoffs in complexity, performance, and cost in order to meet the design specifications.

**COURSE CONTENTS**

- Modeling of Dynamic Systems
- Attributes of Control Theory
- Performance Indicators
- Controller Synthesis Problem
- Optimal Controller Design
- Kalman Filtering Technique
- Fractional Order Controller Design
- Model Order Reduction Techniques
- System Identification Techniques
- Robust Control Theory
- Control of Electrical Power Systems

- Control of Power Electronic Systems
- Networked Control Systems
- PID and Advanced PID Controller Design
- Design of Controllers for Nonlinear Systems
- Compensation for Linear and Nonlinear Systems
- Issues and Challenges in Digital Redesign
- From Concept to Practice – Conceptual Design to Implement Controller.
- Lab Session with MATLAB / Simulink
- Industry Visit

**ADMISSION REQUIREMENT**

Interested participants from academic institutions are advised to send their applications in the enclosed registration form on or before 30<sup>th</sup> September 2014 to the Coordinator.

**FOR INDUSTRIAL PARTICIPANTS**

Participants from Industries/Government Departments/ R&D establishments may please submit their applications with endorsement from Head of the Institution in the enclosed format along with the course fee (Rs.3000/- per participant) by a crossed demand draft payable at Coimbatore, drawn in favour of “The Principal, CIT”, to the Coordinator on or before 03<sup>rd</sup> October 2014. The course fee covers expenses towards lecture and study material only. Since the course is meant for

AICTE approved Engineering Colleges/ Polytechniques, limited number of Industrial personnel can also avail the benefit.

**TRAVEL**

The outstation participants are eligible for 3-Tier AC train fare by the shortest route. The TA/DA for outstation participants will be met as per AICTE norms.

**BOARDING AND LODGING**

Boarding and lodging facilities will be provided for participants from AICTE approved institutions on twin sharing basis. No family accommodation will be provided.

**RESOURCE PERSONS**

The resource persons include subject experts from CIT, IISc, IIT, NIT, AU, PEC, B-U, BDU, GRI and other reputed institutions / organizations.

**ELIGIBILITY**

Faculty members from AICTE approved colleges / polytechnics are eligible to apply. Eligible faculty members are requested to send the filled in application and sponsorship certificate to the coordinator on or before the last date.