

ABOUT THE INSTITUTE

National Institute of Technology, Tiruchirappalli is a deemed university under the control of Ministry of Human Resource Development, Government of India. It is located above 22 kms from Tiruchirappalli on the Thanjavur National Highway. The institution offers Under Graduate Courses in ten branches and Post Graduate Courses in twenty three disciplines of Science, Engineering & Technology besides Ph.D in all the Departments.

ABOUT THE DEPARTMENT

Instrumentation and Control Engineering Department was established in the year 1993. The department currently offers a B.Tech. Program in Instrumentation and Control Engineering, P.G Program in Process Control and Instrumentation in collaboration with the Chemical Engineering Department, M.S. (By research) and Ph.D. Programme. The department was accredited by N.B.A and sponsored under DST-FIST. We aim at producing talented instrumentation and control specialists who cater to the needs of the modern industries. We have highly modernized laboratory facilities for the academic and research activities. The faculty members are having sponsored research projects from DST, MHRD, United Kingdom India Education and Research Initiative (UKIERI), ISRO, ARDB etc. The department has full fledged laboratories to carry out undergraduate, postgraduate and doctoral programmes in the field of Instrumentation and Control Engineering. The state-of-the-art facilities provided enable students to carry out research in the areas of MEMS, Smart Structures, Control of Electromechanical systems and Process Control.

COURSE OBJECTIVES:

The objective of course is to provide knowledge of the fundamental and advanced concepts in Control Engineering and related software. The course aims to explain the theory underlying the concepts and provides experience of implementation using MATLAB, LABVIEW and interfacing the real time setup with software. This workshop will focus on the latest developments in the field of Control Engineering.

COURSE COVERAGE

The topics proposed to be covered are as follows:

Overview of Courses:

- Introduction and overview of Computer Control of Process.
- System Identification, Non-Linear state estimation techniques and Adaptive controller design.
- Fixed order PID, Fractional order PID nonlinear PID and IMC controller design.
- Multivariable Control system.
- Other Popular discrete controller design
- Overview of PLC, SCADA, DCS, FIELDBUS and HART BUS protocols.
- Real time Demos and hands on sessions.
- Research presentation in the area of Control Engineering.

DEPARTMENT OF INSTRUMENTATION AND
CONTROL ENGINEERING
NATIONAL INSTITUTE OF TECHNOLOGY
TIRUCHIRAPPALLI - 620 015

REGISTRATION FORM

“COMPUTER CONTROL OF PROCESSES”

4TH TO 9TH JANUARY 2010

1. Name:
2. Date of Birth:
3. Designation :
4. Institution:
5. Whether the institution has AICTE approval, Yes/ No.
6. Address for correspondence :

Phone:

E-mail:

7. Educational qualifications:

8. Experience (in years)

Teaching:

Industry:

Research:

9. Accommodation Required : Yes/ No

Declaration

The information provided is true to the best of my knowledge. If, selected, I agree to abide by the rules and regulations of the course and shall attend the course for the entire duration. I also undertake the responsibility to inform the Coordinator in case, I am unable to attend the course.

Place:

Date:

Signature

SPONSORSHIP CERTIFICATE

Dr./Mr./Mrs/Ms-----
----- is an employee of our
institute and is hereby sponsored to participate in
the **AICTE/MHRD-SDP on Computer Control
of Processes**.

Place: Signature of Head of Institute
Date: (With Seal)

REGISTRATION

Faculty from Academic Institutions: Nil
Participants from Industries : Rs 2,000

The registration fee must be paid by DD in favour of
“The Director, NIT, Tiruchirappalli-620015” and
payable at SBI, NIT, Tiruchirappalli.

ACCOMMODATION AND TRAVEL

All the participants will be provided with free
boarding and lodging facilities. TA will be
reimbursed as per the AICTE/NIT norms.

ELIGIBILITY

The programme is open to the Engineering
faculty of AICTE approved Engineering
colleges. For candidate from Industry and R&D
Institutions: Rs. 2,000/- per Participants.

RESOURCE PERSONS

The course faculty members from NIT and other
reputed universities, R&D organizations/Industry
person.



IMPORTANT DATES

Last date for Receipt of application: **23-12-2009**
Acceptance Notification : **24-12-2009**

Application and Sponsorship certificate is neatly
typed & dully filled and send to

Dr. K. Srinivasan

Co-ordinator - CCP 2010

Department of Instrumentation and Control
Engineering

National Institute of Technology

Tiruchirappalli - 620 015

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URL: <http://www.nitt.edu>

NATIONAL INSTITUTE OF TECHNOLOGY

TIRUCHIRAPPALLI - 620 015

TAMILNADU

AICTE/MHRD sponsored
Staff Development Programme

On

**“COMPUTER CONTROL OF
PROCESSES (CCP-2010)”**

4th -9th January, 2010

Organised by



Coordinators

Dr.N.Sivakumaran

Dr.K.Srinivasan

Dr.S.Narayanan

**DEPARTMENT OF INSTRUMENTATION &
CONTROL ENGINEERING**