

## 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. The recently the

**Industrial automation lab was established recently for worth of 50 Lakhs funded by DST, FIST and MHRD. The facility includes different process test rigs, PLC and DCS.**

## COURSE OBJECTIVES:

The objective of course is to impart in depth knowledge in control Engineering

## COURSE COVERAGE

The topics proposed to be covered are as follows:

- Overview of Sampled Data Control System (SDCS)
- Design of digital control algorithm
- Advancement in PID controller design
- Model Predictive Control
- Introduction stochastic processes
- Next Generation controller design
- Soft computing techniques for modelling and Control
- Hands on experience using simulation software
- Research Presentations

Course material:

The course material will be provided in CD format for the benefit of participants.

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

### WORKSHOP REGISTRATION FORM

## “ADVANCED CONTROL ENGINEERING (ACE-2015)”

(9-10-2015 TO 10-10-2015)

1. Name:
2. Date of Birth:
3. Designation:
4. Institution:
5. Address for correspondence:

Phone:

E-mail:

6. Educational qualifications:
7. Experience (in years):

8. Demand Draft Details:

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 **Advanced Control Engineering (ACE –  
2015) Workshop**.

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

### REGISTRATION

Participants from  
Academic Institutions: Rs.1200/-  
Industries/R&D Organization: Rs 2750/-  
(Registration fee includes 20% institute overheads)

The registration fee must be paid by DD in favour of  
“The Director, NIT, Tiruchirappalli-620015” and  
payable at SBI, NIT, Tiruchirappalli.  
(Registration fee includes courser material in CD,  
Working lunch, Tea and snacks in morning and  
evening)

### ACCOMMODATION AND TRAVEL

Accommodation and boarding if required will be  
provided in the institute campus on twin sharing  
and chargeable basis. (Rs. 300/- per day per  
person)

### ELIGIBILITY

The programme is open to the Engineering  
faculty and Industry persons.

### RESOURCE PERSON

The faculty members from NIT Trichy and other  
reputed institutes.



### IMPORTANT DATES

Last date for Receipt of application: **30-09-2015**

Acceptance Notification : **1-10-2015**

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

**Dr. K. Srinivasan**

Co-ordinator – ACE 2015

Department of Instrumentation and Control  
Engineering

National Institute of Technology

Tiruchirappalli - 620 015

Tamil Nadu, India

Email: [nskknitt@gmail.com](mailto:nskknitt@gmail.com), [srinikkn@nitt.edu](mailto:srinikkn@nitt.edu)

Phone: 0431-25033 62/63

Mobile No.: 09486001137/09489066245

**For latest updating Please see website**

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

**NATIONAL INSTITUTE OF TECHNOLOGY**

**TIRUCHIRAPPALLI - 620 015**

**TAMILNADU**

**“ADVANCED CONTROL  
ENGINEERING  
(ACE -2015)”**

**(9-10-2015 TO 10 -10-2015)**



**Coordinators**

**Dr.N.Sivakumaran**

**Dr.K.Srinivasan**

**DEPARTMENT OF INSTRUMENTATION &  
CONTROL ENGINEERING**