

**ISSE
SPONSORED**

Short Term Course

**on
PID Control: Teaching,
Practice and Research**

Nov. 26th-28th, 2018

Organized by
**Department of Instrumentation & Control
Engineering, MIT, Manipal – 576104**

REGISTRATION FORM

- Name: _____
- Designation: _____
- Department: _____
- Address: _____

- ISSE Member: Yes / No,
If YES Membership No: _____
- Tel.No./Mob.No/Fax.No.: _____
- Email ID: _____
- Registration Fee Details: _____
Details of NEFT
/DD No. _____
- Accommodation
Required. Not required
- Place and date: _____

Signature

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LOCAL ORGANIZING COMMITTEE

Dr. Dayananda Nayak
(Organizing Secretary)

Dr. V. I. George
(Convenor)

Dr. I. Thirunavukkarasu
(Co-Convenor)

Resource Persons:



Dr. Narayana Iyer worked as Professor in NIT, Durgapur over three decades. Also served with various capacities in different academic institutions. He is an interdisciplinary researcher. His mathematical background with control specialization makes his concepts clear to understand with domain

engineers. He obtained his Ph.D degree from IIT Madras in 1984. His area of research includes Control theory, Signal Processing. He has authored a textbook on “Signals and Systems” with cengage learning in 2012 and “Digital Signal Processing” by Jaico Publishing House in 2006.



Dr. J. Prakash, working as professor and heading the Dept. of Instrumentation Engg, Madras Institute of Technology, Anna University, Chennai. He is the recipient of BOYCOST fellowship in DST. He is an active researcher in the area of PID Control, Model Predictive Control, State Estimation. Reviewer in

Journal of Process Control, ISA Transactions etc. Also, he is actively involved with the ISA activities.

Faculty members (Includes NIT-Trichy) with expertise will be taking few lectures with hands on practice on PID Controller implementation.

**Indian Society of Systems for Science and
Engineering (ISSE) Sponsored**

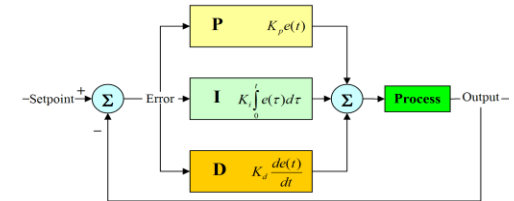
Short Term Course

On

**PID Control: Teaching, Practice &
Research**

*Theme: Demystifying the simplicity of PID in
Industry*

November 26th-28th, 2018



**Organized
by**

**Department of Instrumentation and Control
Engineering
Manipal Institute of Technology,
MAHE, Manipal-576 104.
Karnataka.**



MANIPAL
ACADEMY of HIGHER EDUCATION

(Deemed to be University under Section 3 of the UGC Act, 1956)



Manipal Institute of Technology

Manipal Institute of Technology plays a vital role in producing world class engineers tuned to the demands of a fast changing global village. Started in 1957 as Manipal Engineering College, MIT was the first self-financed engineering college in India. It offers 16 B.Tech programs and 26 M.Tech programs in various disciplines. All the departments have well equipped laboratories and modern multimedia class rooms. In addition, there are a number of central facilities which include central library housed in a separate building with a total area of about 70000 sq. ft., a well-equipped workshop, sports and games facilities with indoor and outdoor play grounds, central computing facility equipped with state of the art computers and peripherals. The campus has excellent infrastructure for academic activities, sports and other extracurricular activities. The infrastructure includes air-conditioned lecture halls, skills lab, air-conditioned hostels and a multi cuisine food court. Nearly 8000 students are staying in campus for their graduate and postgraduate studies. The campus provides a cosmopolitan and congenial atmosphere in which students from many countries develop lifelong friendships. **MIT, Manipal is ranked 39 in NIRF. MAHE is NAAC accredited with 'A' grade. Also ranked between 751-800 in World QS ranking and 1001+ with Times Higher Education ranking.**

Department of Instrumentation and Control Engineering was started in the year 2001 with the mission of providing effective engineering education and training to the students for innovative approaches leading to successful professional career in the field of Instrumentation and Control Systems. The department has grown over the years in all aspects and kept abreast with the defining changes and has been continuously redesigning the curriculum to impart up to date and professionally relevant education to the aspiring students. Presently, the department is offering undergraduate program **B.Tech (Electronics and Instrumentation)** and two postgraduate programs in **Control Systems and Aerospace Engg.** Apart from this, the department also offers Ph.D program in various areas of control systems, Biological Control systems, Image Processing, etc. **The Dept. is also accredited with NBA for three years from 2017.** Students are getting placed in core companies includes Reliance Petrochemicals, Robert Bosch, GE India, KPIT Technologies, etc.,

Topics

Need for PID control in industry

Linear PID Controller design

Non-linear PID Controller design

PID Control for MIMO Square Systems

Issues in PID Control blocks

Anti-reset windup

2DOF PID Control design

Nonlinear 2DOF PID Control

PID Control based on GM and PM

Robust PID Control design

Nonlinear PID Control for MIMO Process

MPC/DMC Control designs for SISO and

MIMO Process.

Hands on practice on:

1. Modeling of Nonlinear systems
2. Implementation of PID control on
 - (a) Conical tank process
 - (b) Shell and Tube Heat Exchanger
 - (c) Binary Distillation Column
3. Yokogawa Centum VP R6 DCS

Eligibility:

Practicing Engineers from Industries, Academic faculty members, Research scholars, PG Students.

About the Short Term Course:

The STC on PID Control: Teaching, Practice and Research is targeted to deliver the recent developments in the area of PID control to the practicing engineers of process industry and also to the research community working in this area. More than 90% of the industrial loops are PI/PID in nature due to its easy adaptability of tuning with process industries. MPC-PID on Chip is becoming popular in industries are about to discuss in this STC.

STC PID-2018 , REGISTRATION

Last date for Registration	5 th Nov. 2018
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While sending, the applications must be sent along with the NEFT details/ Online link registration details

ISSE Members: Rs.2250/-

Non ISSE Members: Rs.2500/-

Participants can make the registration through NEFT

Bank: State Bank of India, Manipal

IFSC code: SBIN304426

Account Number: SB # 33508958510

Branch code: 04426 MICR code: 576002006

Alternatively, registration can be made using the following link

<https://conference.manipal.edu/STCPID2018>

Important Dates:

Last Date for applying : 5th Nov. 2018.

Accommodation:

Accommodation(AC/Non-AC) will be arranged in Hostels/Guest house/Hotels on request against payment.

Rough Tariffs:

Accommodation in hostels will be made based on the availability of the rooms and also on first come first service basis.

Single AC room : Rs.600.00

How to reach Manipal: Udupi railway station (UD) is just 4KM away from Manipal. Mangalore Central (MAQ) / Mangalore Junction (MAJN) railway stations are well connected with trains from all over India, which are 65 / 70KM away from Manipal. Bajpe Airport (IXE), Mangalore is 60KM away from Manipal

ADDRESS FOR CORRESPONDENCE:

Dr. V.I George

Convenor, STC-PID Control

Professor

Department of Instrumentation and Control Engg.

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