RESOURCE PERSONS

Resource persons for the programme are drawn among from IIST faculty as well as Scientist/ Engineers from various ISRO Centers.

TARGET AUDIENCE

The course is open to full time regular / permanent teachers of AICTE recognized degree level Engineering Colleges/ Technical Universities/ Deemed Universities, Research Scholars, Scientists, Engineers from ISRO and other interested participants from Industries.

HOW TO REACH IIST

The campus is located at Valiamala, 18 kms from Thiruvanathapuram city, on the way to the famous hill resort of Ponmudi and is very well connected to Bangalore, Mumbai and Chennai by bus, train and air. The nearest airport is Trivandrum International Airport (30 kms) and the nearest railway station is Trivandrum Central (26 kms). There are frequent buses from Trivandrum Central bus stand to Vithura or Ponmudi (Get down at ISRO Jn).

Corresponding Address

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Faculty Development Programme on

Automatic Control Systems and Design with MATLAB/SIMULINK

19—22, May 2015

Coordinator

Dr. Rajesh Joseph Abraham

Convener

Dr. N. Selvaganesan

Organized by

Department of Avionics

Indian Institute of Space Science and Technology

Dept. of Space, Kerala, Govt. of India

Thiruvananthapuram, Kerala 695547

ABOUT THE INSTITUTE

Indian Institute of Space Science and Technology (Deemed to be University under Section 3 of UGC Act, 1956) envisions the integration of Space Technology and Space Science educational programs with basic and applied research for meeting the national R&D requirements of science and technology in general and of the Indian Space Programme in particular. IIST functions as an autonomous body under the Department of Space, Government of India. The institute provides a vibrant research atmosphere and offers B. Tech, M. Tech, Doctoral and postdoctoral programmes in the areas Avionics, Aerospace and Physical Science. The Institute has the unique mandate of encouraging and equipping brilliant youngsters from all parts of the country to take up a career as Scientist/Engineer in Indian Space Research Organization and other industries. Please visit www.iist.ac.in for more details.

ORGANISING DEPARTMENT

The Department of Avionics was established in the year 2007 at IIST. It offers a four year B. Tech. Programme in Avionics which gives technical excellence in all areas of Avionics engineering such as Control, Digital System Design, Digital communication, VLSI Design, Navigation, Guidance, Computer Technology and Power Electronics. In addition, the department offers M.Tech in Control System, RF and Microwave Communication and Signal Processing, VLSI and Microsystems. The department also provides Ph.D program in various disciplines of Avionics like Electronics, Electrical Engineering and Computer Science.

COURSE OBJECTIVES

Control Systems is an indispensable part of any system and its design and is common to different disciplines of engineering like Electrical, Mechanical, Electronics, Instrumentation, Chemical Engineering etc. The main objective of this course is to educate the participants and enhance their skills in Automatic Control Systems, its analysis in time and frequency domains and control design. All the classes would be strongly supplemented by hands-on lab sessions using MATLAB/SIMULINK. Further, some applications and case studies would be touched upon. This course would help the participants in applying their knowledge of control systems to the areas of modelling, simulation, analysis and design of controllers.

The course topics include

- **Mathematical modeling of dynamic systems**
- **Time domain analysis**
- **Root locus**
- **Stability techniques**
- **Frequency domain analysis**
- **Compensator Design techniques**
- **State space analysis**
- **Digital Control Systems: An Overview**
- **Case studies and other advanced topics**

COURSE FEE

Rs 5000 for Faculty members and Research Scholars.

Rs 7000 for Scientists, Engineers from ISRO and other Industrial participants.

REGISTRATION

Online course registrations must be done provisionally at **www.iist.ac.in/matlink-2015** A registration form must be completed afterwards (which would be sent by email after online registration) and sent to the corresponding address along with a Demand Draft drawn in favour of the '' Registrar, IIST " payable at Trivandrum, towards the registration fees upon receipt of D.D and filled in registration form the course registration wil be confirmed. Participants will be provided boarding and lodging facilities, on nominal charges and on request. TA/DA will not be provided for the participants. Registrations will be done on a first come first serve basis. The number of participants is restricted to 45.

* Course is subject to cancellation if sufficient enrollment is not met and in that case, the same will be intimated to the participants and registration fee will be refunded.

DATES TO REMEMBER

Last date for online registration:

February 28, 2015

Intimation about selection (by e-mail)

March 5, 2015