REGISTRATION

Registrations must be done 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 fees will be refunded.

DATES TO REMEMBER

Last date for online registration : October 15, 2015
Intimation about selection(by e-mail) October 20, 2015

ADDRESS FOR CORRESPONDENCE

Dr. Rajesh Joseph Abraham

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Indian Institute of Space Science and Technology
Department of Space, Government of India
Valiamala P O, Thiruvananthapuram - 695 547, Kerala

Faculty Development Programme on

Control Engineering Analysis & Design with MATLAB/SIMULINK

15-18, December 2015

Coordinator

Dr. Rajesh Joseph Abraham

Organized by
Department of Avionics

ABOUT THE INSTITUTE

Indian Institute of Space Science & Technology (IIST) is Asia's first Space Institute and the first in the world to offer complete range of undergraduate, post graduate and doctoral programmes with specific focus to space science and technology. The Institute has the unique mandate of encouraging and equipping brilliant youngsters from all parts of the country to take up career as Scientist/Engineer in Indian Space Research Organization. IIST functions as an autonomous body under the Department of Space, Government of India.

ORGANIZING DEPARTMENT

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

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.

COURSE OBJECTIVES

Control Systems is an indispensable part of any engineering 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 will be strongly supplemented by hands-on lab sessions using MATLAB/SIMULINK. Further, some applications and case studies will be discussed. This course will 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

RESOURCE PERSONS

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

COURSE FEE

Rs 5000 for Faculty members and Research Scholars.
Rs 7000 for Scientists, Engineers from ISRO and other Industrial participants.