

ADDRESS FOR CORRESPONDENCE

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Indian Institute of Space Science and Technology

Department of Space, Government of India

Valiamala P O, Thiruvananthapuram - 695 547, Kerala

*Short Term Course
on*

AUTOMATIC CONTROL SYSTEMS ENGINEERING AND DESIGN

27-30, December 2016

Organized by
Department of Avionics

Coordinator

Dr. Rajesh Joseph Abraham

REGISTRATION

Registrations must be done at <https://goo.gl/btD1J2> 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 for requisite amount 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 will 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: **September 16, 2016**

Intimation about selection(by e-mail): **September 20, 2016**



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 objective of this course is to educate the participants and enhance their skills in Automatic Control Systems and its applications. Hands-on lab sessions using MATLAB/SIMULINK will also be arranged. Further, some lead lectures, applications and case studies will also be taken up.

THE COURSE TOPICS INCLUDE

Launch Vehicle Control – Theory & case studies
Reusable Launch Vehicle/Aircraft modeling and controller Design
Digital Flight Control Systems Design
Robust Autopilot Design
Robotic Manipulator Control
Mechanical Actuator Control
Modern Avionics and aircrafts
Compensator Design Techniques
Navigation in Launch Vehicles

RESOURCE PERSONS

Dr. V Brinda, Head, Control Design Division, VSSC, ISRO

Dr. Gopaljee, Scientist SG, Control Design Division, VSSC, ISRO

Dr. G Mallikarjuna Rao, Scientist F, RCI Imarat, DRDO

Dr. S E Talole, Dean (Technology) & Professor, Aerospace Engineering, DIAT, DRDO

Prof. Kurien Issac, Sr. Professor, Aerospace Engineering, IIST, ISRO

Prof. Sam Zachariah, Adjunct Professor, Avionics, IIST, ISRO

Mr. Paul Russell, Sr. Engineer, Maintenance Training Organisation, Air India

Dr. P P Mohanlal, Former Director, IISU, ISRO

Dr. Rajesh Joseph Abraham, Assistant Professor, Avionics, IIST, ISRO

COURSE FEE

Rs 5000 for Faculty members and Research Scholars.

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

