

NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA
TEQIP-III CELL

No. TEQIP-III/2018/

Dated: 03.01.2018

A short term course on '**Estimation Guidance and Control: Applications to Missile Systems**' for the faculty and students of B.Tech, M.Tech and Ph.D is being proposed to be organised at NIT Kurukshetra in collaboration with RCI and DRDL Labs, DRDO, Hyderabad from **10th to 15th January, 2018** under TEQIP-III as a joint academic activity under mentoring / twinning system with Govt. Engineering College, Bikaner, Rajasthan, being the mentee institute.

The short term course is a sequel and advanced version of the short term course on '**Control Systems and Missile Guidance**', organised during December 2016 at NIT Kurukshetra, which was very well appreciated by the participants. It is expected that the interested faculty and the students working in the area would get immensely benefited. The course has been so designed as to equip the participants with the knowledge of advanced Missile Systems and their dynamics, modelling and simulation thereof and to bring about an understanding of the working of real missile systems and their guidance and control through practical sessions.

Course Contents:

- Intro to missile
- Modelling and simulation
- Basic guidance
- Intro to estimation
- Estimation application in defence
- Modern & Nonlinear Systems and applications
- Integrated estimation guidance and control
- Interaction
- Intro to optimal guidance
- Modern guidance
- Interaction and practical with guidance examples

- Advance estimation
- Interaction and practical with estimation examples
- Intelligent control systems

Participants:

The course is of inter-disciplinary nature and therefore, may be of interest to the faculty members and the students from the relevant departments such as Electrical Engineering, Electronics & Communication Engineering, Mechanical Engineering, Computer Engineering, Instrumentation and Control and Mathematics etc.

Resource Persons:

Three Scientists from RCI and DRDL Labs, DRDO, Hyderabad would be visiting the Institute as resource persons for the course, besides the in-house faculty, and would deliver the expert lectures and conduct practical sessions, giving examples of real missile systems, their guidance and control.

Registration Fees:

The course is proposed to be free of cost for the faculty and students of NIT Kurukshetra and Govt. Engineering College, Bikaner, Rajasthan. However, for the participants from other institutions, the registration fee for the faculty and the students is proposed to be Rs. 1500/- and Rs. 1000/-, respectively.

All the interested members of the faculty and the students are cordially invited to join the course. The expression of interest can be registered by sending the email to: sathans@nitkkr.ac.in,

Course Coordinator
(Sathans)

Professor of Electrical Engineering,
Dean(SW) and TEQIP-III Coordinator