



Principle of Control Systems
Engineering: Hands on
Experience with MATLAB

March 25-29, 2017

Venue: Prabha Bhawan, MNIT Jaipur

<http://www.mnit.ac.in/eict>



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Preamble (Electronics & ICT Academy)
Government of India had announced a
National Policy on Skill Development, which
has set a target of skilling 500 million people
by 2022 in the domain of Electronics & IT.
Under the plan scheme of "Digital India
Manpower Development". DeitY has set up
seven (07) Electronics and ICT Academies as
a unit in 03 IITs, 03 NITs and 01 IIIT with an
objective of faculty/mentor development/up
gradation in the areas related to Electronics &
ICT leading ultimately to improved
employability of graduates/diploma holders.
MNIT Jaipur has set up such an academy for
providing specialized training to faculty and
industry persons in the states/UTs of
Rajasthan, Gujarat, Daman & Diu, Dadra
Nagar Haveli.

(A) Issues-

1. IT Hardware and Electronics
Manufacturing industry- availability of
properly trained, skilled and qualified
manpower
2. Number of quality PhDs generated in IT /
Computer Science is very low
3. In E & ICT domain- there is a very high
degree of obsolescence of existing
technologies and faster emergence of
newer technologies

(B) Approach-

1. A focused faculty training/updation
programme for IT, Electronics and related
sectors
2. Spreading up and continuous updation
regarding Emerging Technology
3. Training and consultancy services for
Industry
4. Design, Develop and Deliver specialized
modules for specific research areas and
Industry
5. Providing advice and support for technical
incubation and entrepreneurial activities

An intensive one-week training programme is being organized for faculty of engineering and technological institutions. It is also open to persons from industry and doctoral students of Indian organizations. The objective is to provide an exposure to the participants to the state-of-the-art in **Control System Engineering** through interaction with experts from academic CFTI institutions such as IITs/NITs/IIITs including host institution. The technical program will include state-of-the-art lectures, hands-on lab sessions, discussions and presentation sessions.

Programme topics

Review of Fundamental Concepts in Control System Engineering, Detailed Analysis on Complex Topics in Control System Engineering, Hands on Experience in MATLAB/SIMULINK to Demonstrate the Applicability of Control Principles, Introduction to Principles of Modern Control Theory- Observer Design, Basics of Sliding Mode Control Design, Optimization Techniques, Research Perspectives in Control System Engineering.

Invited Experts – Dr. M. Gopal Formerly Professor, IIT Delhi,
Dr S. Janardhanan, EED IIT Delhi, Dr. Shyam Kamal, EED IIT BHU,
Renowned Faculty from IITs/NITs, Experts from MNIT Jaipur.

Programme coordinators

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Registration

Registration is open to faculty, industry persons, doctoral and postgraduate students of programmes related to Electronics, Computer engineering and Information technologies, Electrical Engineering. **Registrations will remain open till last day. On the spot registration are also welcome.** Register on line at <http://www.mnit.ac.in/eict>

Fee

- (A). The one-time registration fee of Rs. 500/- is to be paid by each participant attending first time, irrespective of affiliation. This fee is not applicable for those participants, who have attended any Academy training programme earlier.
- (B). (i) The participants from academia and research scholars are required to pay a further fee of Rs. 2000/- (faculty/research-scholars). Rest expenditure is sponsored by DeitY through Electronics & ICT Academy at MNIT Jaipur.
- (B). (ii) However, the participants from industries, UG/PG students would pay a further fee of Rs. 5000/-.
- (C). The fee covers the participation in the programme, registration material including tutorial notes, boarding (breakfast/lunch) on all the days of the workshop. The travel and other expenses would have to be borne by the participants or their parent-organizations.
- (D). Lodging for very limited number of outside participants is available on *first-come first-served and additional payment basis*.
- (E) The organizers should receive the registration amount through online payment/NEFT/IMPS/DD.

Account Name- 'Electronics and ICT Academy MNIT Jaipur'	Account Number- 676801700483
Bank address- ICICI Bank, MNIT Campus Branch, Jaipur	IFSC Code- ICIC0006768

(F). Please pre-intimate your desire to participate through e-mail, before registration form reaches us.

Further query:

- (a) Please visit us at: <http://www.mnit.ac.in/eict>,
<http://academymnit.wordpress.com>
- (b) Email us: academy@ATjmnit.ac.in