

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR



Department of Electrical Engineering
IEEE RAS SHORT-TERM COURSE

on

INTELLIGENT AND ROBUST CONTROL

Advanced Methods and Applications

IRCA-2026

19-23 November 2026

Offline / In-person | MNIT Jaipur

Organized by
Department of Electrical Engineering
Malaviya National Institute of Technology Jaipur

About MNIT

Malaviya National Institute of Technology (MNIT) Jaipur is one of the NITs established by Ministry of Human Resource Development, Government of India. The Institute, earlier known as MREC, was established in 1963 as a joint venture of the state and central Governments. Later in 2002, the college was given the status of National Institute of Technology and on August 15, 2007, proclaimed Institute of National Importance through Act of Parliament. MNIT campus spreads over 325 acres of lush green area in the prime location of Jaipur city. At present, in addition to research, consultancy and developmental activities, the Institute offers UG and PG (M. Tech./M.Sc. & Ph.D.) level courses to about 5000 students in almost all leading fields of engineering, technology, management and sciences.

About Department of EE

The Electrical Engineering Department is one of the oldest departments at MNIT Jaipur. Currently, the department offers undergraduate courses in Electrical Engineering along with postgraduate courses in Power Systems, Power Electronics and Power System Management. The research domains of the department span over various areas of Electrical Engineering. The department continually provides collaborative opportunities with National/International Universities, resulting in a global exposure in research.

About Control and Automation Group

The Control and Automation Group in the Department of Electrical Engineering at Malaviya National Institute of Technology Jaipur focuses on teaching and research in modern control theory, automation, robotics and intelligent systems. The group explores a wide range of topics, including linear and nonlinear control systems, system modelling and discretization, robust and data-driven control, state estimation, and stability analysis. Its research activities extend to robotic systems, autonomous platforms, power electronics and other cyber-physical systems. Through theoretical investigations, simulation-based studies, experimental validation and interdisciplinary collaborations, the group aims to develop innovative control methodologies to address emerging engineering challenges and contribute to advancements in automation, robotics and intelligent technologies.

Registration Fees

Students Participants: ₹1,600 + 18% GST = ₹1,888
Faculty/other participants: ₹2,000 + 18% GST = ₹2,360
Category wise online participation is also accepted in abovementioned fees.

Payment Details

Account Name: Registrar (Sponsored Research) MNIT, Jaipur
Account Number: 676801700388 Bank Name: ICICI Bank IFSC Code: ICIC0006768 Branch: MREC Branch, Malaviya National Institute of Technology, Jaipur-302017

About the Course

This five-day short-term course provides a focused introduction to intelligent and robust control methods, combining theoretical foundations with applications and practical sessions. Topics include **Basics of system theory and nonlinear systems, Robotics and control of mobile robots, Sliding-mode and higher-order sliding-mode control, Linear matrix inequalities (LMIs): foundations, Exact discretization of dynamical systems, Event-triggered control, Full-order and reduced-order observer design, Integral sliding-mode control, Observer design using MATLAB / Simulink, Feedback linearization, Behavioral approach to data-driven control.**

Confirmed List of Speakers

1. Prof. Indra Narayan Kar, IIT Delhi
2. Prof. Rajesh Kumar, MNIT Jaipur
3. Prof. Shyam Kamal, IIT BHU Varanasi
4. Prof. Manas Kumar Bera, NIT Rourkela
5. Prof. Kiran Kumari, IISc Bangalore
6. Dr. Neeli Satyanarayan, MNIT Jaipur
7. Dr. Gagan Deep Meena, MNIT Jaipur
8. Dr. Surender Hans, MNIT Jaipur
9. Dr. Khushboo Shah, MBM University Jodhpur

Patron

Prof. N. P. Padhy
Director, MNIT Jaipur

Chairman

Prof. Prerna Jain,
Head, EED, MNIT Jaipur

Course Coordinators

Dr. Neeli Satyanarayan,
Associate Professor, EED, MNIT Jaipur
(Coordinator)

Dr. Gagan Deep Meena,
Assistant Professor, EED, MNIT Jaipur
(Co-Coordinator)

Dr. Surender Hans,
Assistant Professor, EED, MNIT Jaipur
(Co-Coordinator)

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Registration link

<https://forms.gle/vfbuBrMsaJY1TCRu6>

Please fill the above registration form after the payment of fees.