IIT Kanpur and The Robotic Society (India)  
Winter School on  
“Robotics and Autonomous Systems”  
02-05 April 2019

Organized by:
- Center for Mechatronics, IIT Kanpur, Kanpur-208016
- The Robotics Society (India)

Course Co-ordinators:
Dr. Ashish Dutta  
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Principal Research Engineer, Center for Mechatronics, IIT Kanpur  
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Tentative Speakers
Prof. Asokan T., IIT Madras  
Prof. S. K. Saha, IIT Delhi  
Prof. Santanu Choudhury, IIT Delhi  
Prof. Bhaskar Dasgupta, IIT Kanpur  
Prof. Mangal Kothari, IIT Kanpur  
Prof. S R Sahoo, IIT Kanpur  
Prof. K S Venkatesh, IIT Kanpur  
Prof. Ashish Dutta, IIT Kanpur  
Prof. L. Behera, IIT Kanpur  
Prof. Abhishek, IIT Kanpur  
Prof. Indranil Saha, IIT Kanpur  
Mathworks - MATLAB

Sponsors:
DST—UKIERI  
The Robotics Society (India)  
Centre for Mechatronics (IIT Kanpur)

Objectives:
The next decade will be shaped by the five digital forces of: Robotics and AI, cloud computing, big data analytics, mobile and pervasive computing and social media. Robotics and autonomous systems is an interdisciplinary engineering field which connects the classical branches of mechanical, electrical engineering and computer science/information technology. Its applications range from machine tools, autonomous cars, drones, biomedical engineering, industrial automation, medical robotics and exoskeletons, Machine learning and AI, etc. The main objectives of this course is to first give the participants an introduction to the basic kinematics and dynamics of robotic systems and then focus on a few advanced topics related to autonomous robotic systems applications. A practical session of Matlab based integration of hardware and software is also included for real world applications. Each day will have a focussed theme on a particular area.

Focused Areas to be covered:

Eligibility Criteria
Bachelor’s degree (Masters Preferred) in Mechanical/Electrical/Electronics/ Computer Science/ Mechatronics/ Instrumentation with some exposure to Robotics or autonomous systems.

Registration Process
To register for this event, please fill the given form on the website.
http://www.iitk.ac.in/robotics/winter-school/

Registration Fees (+18% GST to be added separately)
- Students INR 5,000/- (without accommodation and food)
- Students INR 8,000/
- Teachers/ Faculty INR 10,000/-
- Industry/ R&D INR 15,000/-

Important Dates
Appropriate registration fee can be paid as given in the website.