COURSE OBJECTIVE

The main objective of this course is to give the participants a broad overview of the field of Robotics through numerous lectures and laboratory sessions.

Course Contents

The participants would be exposed to the types of robot manipulators, manipulator kinematics, dynamics and their control, singularity and workspace analysis, motion planning, configuration spaces of mobile vehicles and manipulators, geometric modeling and sensor based map building, path planning and obstacle avoidance.

Laboratory sessions on hands-on learning with PUMA 560 robot and its programming using VAL language, various sensors and actuators, interface using MATLAB, LabVIEW and Arduino, etc. will be part of the QIP course.

Course Coordinators:

Dr. Anjali V. Kulkarni
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Course Web Site:

http://www.iitk.ac.in/robotics/
QIPCourse2017/index.html

Important Dates


A Short Term QIP Course on Robotics

4-8 September, 2017

Venue
PBCEC, IIT Kanpur

Organized by
Centre for Mechatronics
Indian Institute of Technology Kanpur
KANPUR-208016
Dear Sir/Madam,

Kindly bring the enclosed announcement to the notice of the faculty and students of your institute and encourage them to participate in the QIP course on ‘Robotics’.

**Intended Participants**

The course is designed for people from academia, R & D institutes and industry working in the field of Aeronautical, Computer Science, Mechanical Engineering, Electrical and Electronics Engineering, Information Technology, Medical Sciences, and others. It will be for Professionals and graduate students alike.

**Registration Fees**

| Industry/R&D Personnel | Rs. 8,000/-  |
| Teachers/Students      | Rs. 5,000/-  |

(Accommodation and Food Charges Extra)

**Application Procedure**

Online registration facility is available on the Course Web Site:

[http://www.iitk.ac.in/robotics/QIPCourse2017/index.html](http://www.iitk.ac.in/robotics/QIPCourse2017/index.html)

Appropriate registration fee can be paid using On-line Quick Payment option / NEFT transfer or alternately, by sending a Demand Draft in favor of ‘Continuing Education Programme on Robotics’, payable at IIT Kanpur by 18th August 2017.

The details for the Quick payment / NEFT transfer of registration fees are given below:

Account Name: **Continuing Education Programme on Robotics**

Account Number: 36298308440

Branch: **State Bank of India, IIT Kanpur**

IFSC Code: **SBIN0001161**

**Accommodation**

Shared accommodation for the registrants is available in Visitor’s Hostel of IIT Kanpur **on payment basis**. For further details on the charges, you may contact the Visitor’s Hostel, IIT Kanpur:

[http://iit.ac.in/vh/contact.htm](http://iit.ac.in/vh/contact.htm)