

## 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:

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## Course Web Site:

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

## Important Dates

**Application Deadline: 11<sup>th</sup> August, 2016.**  
**Acceptance Notification: 18<sup>th</sup> August, 2016.**



## 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 (Accommodation and Food Charges Extra)	Rs. 5,000/-

## Application Procedure

Online registration facility is available on the Course Web Site:

<http://www.iitk.ac.in/robotics/QIPCcourse2017/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 18<sup>th</sup> 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://iitk.ac.in/vh/contact.htm>