For further information contact

Course Coordinator:
Prof. J. RamKumar / Prof. S. Bhattacharya

Contact Address:
CNC Machining
TA 202 Lab,
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Kanpur - 208016.

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All payments should be through DD drawn in favor of “CNC Machining” IIT Kanpur, payable at Union Bank of India, IIT, Kanpur Branch.

Number of participants

The number of participants is limited to 35 Preference will be given to teachers, and candidates who have an engineering diploma & undergoing B.Tech degree course in Mechanical / Production / Industrial Engineering & in an area relevant to the theme of the course.

Speakers

- Faculty of IIT Kanpur

Important Date

- Receipt of applications, April 10, 2015
- Information to the selected candidates: April 17, 2015
- Short term course duration:

April 29 – May 03, 2015
Background
Mechanical Engineering Department is one of the founding departments of IIT Kanpur. The Department played a leading role in evolving an 'Engineering Science' based curriculum and served as a role model for many academic institutes in the country. Under the Department of Mechanical Engineering TA Lab 202 is one of the biggest labs in IIT Kanpur for imparting technical arts course to students of all branches of 2nd Year. The lab also provides training to the Mechanical Engineering students in the subject of Manufacturing Process. Students of all branches use the facilities for Design, deployment and fabrication of their projects. TA Lab with latest tools, Machinery and equipments is also used for carrying out research work in the area of manufacturing engineering. CNC technology is one of the most modern techniques used by the industry. There are several modern manufacturing technologies which increase the rapidity and precision of manufacturing industry. There are almost 24 numbers of stations for computer numeric control machines (CNC) those are being regularly used for project realization. As the name suggests CNC is computer numeric control and is a technology made by retrofitting ordinary machine tools with sophisticated controllers, stepper drives and motors for controlling the relative workspace/ tool motion.

Objective
The short term course proposed on CNC Machine is specially designed course with a nice blend between engineering fundamentals of machining and hands on training on these machines. The course is specially designed for B. Tech students who would be given hands on training starting with conventional machining practice, CNC programming, machine measurement and use of DELCAM. The detail of the course is given in the following section.

Registration Fees
There is no course fee for the sponsored teachers from Engineering colleges (only those approved by AICTE, New Delhi). They will be paid to and fro II class train fare via shortest route (strictly on production of ticket), and free boarding and lodging in the hostel of IIT Kanpur. For the selected candidates: The selected candidates will be requested to send a refundable caution deposit of Rs.1000/- to ensure their commitment for participation in this course. This amount will be refundable only to those teachers who attend the course. Please write your name on the back of the demand draft. And for participants from AICTE approved Diploma colleges / Engineering colleges Students, industry/R&D organization, the registration fee (non-refundable) is Rs. 5,000/- only towards course fees and course material. The participant will have to make their own arrangement for travel. However boarding & lodging can be arrange on payment basis in guest house / Hostel at IIT Kanpur on prior request and subjected to the availability.

About the course
- Introductory Lecture on Conventional / Non Conventional machines
- Machine practice
  To visit workshop & hands on practice sessions on different machine tools
- Introductory Lectures on CNC Machines
  - Basic of CNC
  - Type of control
  - Programming of CNC
  - Motion coordinate system
  - Position modes
  - NC part programming
  - ADT programming
- CNC practice (Lathe & Milling)
  To visit CNC Machine and hands on practice sessions on different machine tools.
  Basic CNC programming on many different part geometry.

APPLICATION FORM
Short term course on
April 29 – May 03, 2015

Name: ..................................................
Title/Position: ..........................................
Institute / Organisation: ..........................................
Mailing Address: ..........................................
Email: ..................................................
Fax: ..................................................
Phone(s): ..................................................
Qualification: ..........................................................
Accommodation Required: Yes / No ..................................
Details of enclosed Demand Draft:

No. ..........................................
Dated: ..........................................
Amount (Rs): ..................................................
Issuing Bank: ..................................................

Sponsored by, if any
Name of the organization: ..........................................
Address: ..................................................

Date:  
Participant Signature