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भारतीय प्रौद्योगिकी संस्थान खड़गपुर
Indian Institute of Technology
Kharagpur



Short Term Course
On
Solid & Surface CAD modelling with CAM
applications in CNC Machining

(January 19 – 23, 2015)

Venue: CNC Room, CWISS

Organized by

Central Workshop & Instruments Service Section
Indian Institute Technology, Kharagpur 721302

Objectives of the Course

The primary objectives of the course are as follows:

- i) Exposing participants to the fundamentals of different types of CAD and CAM software.
- ii) Building up confidence and capability in the participants to handle CAD- CAM software.
- iii) Exposing the participants to different types of CNC machines and their uses in the manufacturing field.
- iv) Providing exposure to CNC machining problems and their solutions.
- v) Enhancing the capability of the participants to make models using CAD-CAM application and their supporting software.
- vi) To make them up to date in the latest developments in the field of CAD-CAM application.

Course Schedule and Methods

9 am to 6 pm with 1-hour lunch break in each day.

The course would consist of lecture sessions, instruction sessions, discussions on problems, and practical sessions.

Eligibility

Category - 1 (AICTE Sponsored / TEQIP Sponsored):

Teachers from AICTE approved Colleges / Institutions / Universities.

Category – 2 (Student / Industry / others):

B. E. / B. Tech./AMIE/Diploma in Engineering/ B. Sc. /M. Sc. or any higher qualification in relevant field.

Persons from Industries & Govt. Organizations related in this field are also eligible.

Course Contents

Sl.No.	DESIGN COURSE	TOOL ROOM COURSE Related the design course
1(a)	<p style="text-align: center;">Auto CAD 2010 2D</p> <p>[Introduction to 2D sketching with 2D CAD features & step by step explaining the 2D CAD features related to make 2D drawing. Make exercise & generating of 2D extension file supported by CAM software.]</p>	
1(b)	<p style="text-align: center;">AUTOCAD 2010 3D</p> <p>[Introduction to creation of 3D solid CAD model & rendering with CAD features by step by step process. Sample modeling & generation of 3D extension file supported by CAM software]</p>	
2.	<p>CNC Turning Programming & pre-process simulation checking with</p> <p style="padding-left: 40px;">(i) FANUC-G&M Code.</p> <p style="padding-left: 40px;">(ii) CAD CAM software – Win NC EMCO</p>	CNC Turning (Lathe) M/C operation
3.	<p style="text-align: center;">Solid Works 2012</p> <p>[Introduction to Solid Works (solid & surface modeling) Lesson 1. Parts / Lesson 2: Assembly / Lesson 3: Drawings. 3D sketching & 3D sketching with plane. Assembly & Assembly Mates. Toolbox basic knowledge. Photo view 360- Rendering. Some Exercise of 3D CAD modeling- Step by step guide process. How to import & export the different CAD extension file. Generating of 3D extension file supported by CAM software.]</p>	
4.	<p>CNC Milling Programming & pre – process simulation checking with CAM Software-Roland SRP Player</p>	CNC 4-AXIS Milling M/c. operation

Course Co-Ordinators

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Chairman, CWISS

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Address for Communication

All queries regarding the course may be addressed to the Principal Coordinator or the Coordinator.

Application and Fee

Category-1:

Rs. 15000.00

Teachers from AICTE approved Colleges / Institutions / Universities/ Teachers from TEQIP colleges will be waived the course fees.

Category-2:

Course fees for Others

: Rs. 15000.00

The course is designed to be offered for duration of *5 days*. Number of participants for the course will be limited to **twenty four** only. The participants will be selected on '**first-come-first-served**' basis out of the eligible applicants.

The course fee is **Rs. Fifteen thousand only** per participant. Payment is to be made through bank draft drawn in favour of '**CEP-STC, IIT Kharagpur**' payable at **Kharagpur**. The application should be sent to the mailing address latest by **31st December, 2014**.

The course fee includes course materials, tea/coffee and snacks during lecture schedules only.

To confirm participation please send the scanned copy of the Demand Draft to spatraitkgp@yahoo.in & sumit4s_iit@yahoo.com by 31st December, 2014 positively.

Certificate

A certificate of participants will be issued to all the participants from the Office of "Dean, Continuing Education, IIT Kharagpur".

Accommodation

Outstation participants will be provided Single or shared accommodation in the Visveswaraya Guest Houses, IIT Kharagpur on self payment basis as per availability on prior request.

How to reach campus at IIT Kharagpur

Situated about 120 km west of Kolkata, Kharagpur can be reached in about 2 hrs. by train from the Howrah railway station of Kolkata or 3 hrs. by car from Kolkata airport. Kharagpur is also connected by direct train services to most major cities of the country. The institute is about 10 minutes drive (5 km) from the Kharagpur railway station. Private taxi, auto rickshaw or cycle rickshaw can be hired to reach the Institute.

Important Dates

Last date for receiving application: 31st December, 2014

Intimation to the applicants: 4th January, 2015

Course duration: January 19 to 23, 2015



REGISTRATION FORM

SHORT-TERM COURSE

On

Solid & Surface CAD modelling with CAM applications in CNC Machining
(January 19 – 23, 2015)

- Name: _____
- Category [Student/ Academic/Industry]: _____
- If Academic
 - Designation: _____
 - Institute Name: _____
[For registration as student, please enclose a bonafide certificate from parent Institution.]
- Sex (M/F): _____
- Organisation: _____
- Highest academic Qualification: _____
- Address for Correspondence: _____
- Telephone/Fax: _____
- Mobile: _____
- E-Mail (Compulsory): _____
- Accommodation required (Yes/No) _____
- Bank Draft Details:
 - Draft No.: _____
 - Date: _____
 - Amount Rs. _____
 - Issuing Bank/Branch: _____

Signature of the participant

Approval for AICTE Candidates/Sponsorship

We approve the above applicant is a faculty of our organization. He/She is recommended for the course during January 19-23, 2015.

Signature with seal of the
Head of the organisation

Date: _____