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भारतीय प्रौद्योगिकी संस्थान खड़गपुर
Indian Institute of Technology
Kharagpur

Short Term Course

On

CAD-CAM Application in CNC MACHINING

(September 23 - 27, 2016)

Venue : CNC Room, CWISS



ORGANIZED BY

Central Workshop & Instrument Service Section

IIT Kharagpur – 721301

Contact : 03222-282500 / 9933792374

Objectives of the Course

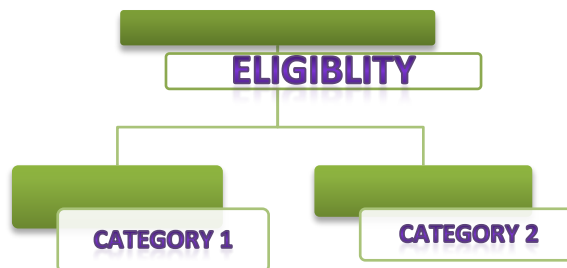
➤ The primary objectives of the course are as follows:

- 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.



Category -1 (Teaching faculty from TEQIP-II college etc):

- Teaching faculty from TEQIP-II funded Colleges / Institutions / universities.
- A few final year UG students or with higher qualification of TEQIP – II may also be considered subject to availability of seats.

Category – 2 (Non-TEQIP Faculty/Student / Industry / others):

- B. E. / B. Tech.(Final year-eligible) /AMIE/Diploma in Engineering/M. Sc. or any higher qualification in relevant field.
- Persons from Industries & Govt. Organizations related in this field are also eligible.
- Teachers, Technical staff, Students (final year) of Non-TEQIP-II college.
- Technical staff of TEQIP-II college .

Course Content

Sl. No.	DESIGN COURSE	TOOL ROOM COURSE Related the design course	Days wise
1	 <p style="text-align: center;">AUTOCAD 2D 2010</p> <p>Key Points of AutoCAD: AutoCAD application for 2D, drafting and Modeling.</p> <ul style="list-style-type: none"> ❖ The course explores the application of latest tools & techniques of AutoCAD software package with all available features. ❖ The progressive step by step solution of various example of 2D & 3D Modelling, making an ideal solution for both the novice & the advanced user. <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>		23 rd Sep-16
2.	 <p style="text-align: center;">Solid Works 2012</p> <p>[Introduction to Solid Works solid & surface modeling)</p> <p>Lesson 1. Parts / Lesson 2: Assembly / Lesson 3: Drawings. 3D sketching & 3D sketching with plane. Mould design, Assembly & Assembly Mates. Toolbox basic knowledge. Photo view 360- Rendering. Exercise of 3D CAD modeling- Step by step guides process. How to import & export the different CAD extension file to different areas and devices.</p>		24- 25 th Sep-16
3.	 <p>Creating NC Program for various complex shape 3D Solid Model in rotating X-Y Plane in any direction (0 - 360°) using CAM Software – Roland SRP Player</p> <ul style="list-style-type: none"> • CNC Turning Programming & pre-process simulation checking with • FANUC-G&M Code. 	CNC 4-AXIS Milling M/c. Operation	26 th Sep-16
4.	 <p>Creating NC Program for various complex shape 3D Solid Model in different planes using Delcam PowerMILL Software.</p> <ul style="list-style-type: none"> ➤ Selection of workplane ➤ Toolpath Generation ➤ Simulation Checking of part design ➤ Collision checking ➤ Final Machining 	5-Axis CNC Milling M/c.	27 th Sep-16

Course Co-Ordinators

Professor A. Roy Choudhury

Principal Co-Ordinator

Chairman, CWISS

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Co-Ordinator

Sr. Tech. Supdt., CWISS

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Email: santdas@rediffmail.com

Address for Communication

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

Application and Fee

Category-1 : Candidates will have to submit DD of Rs. 2000.00 payable to (IIT Kharagpur) this will be refunded after completion of short term course by candidates.

Category-2 : candidates Rs. 15,000.00

Course fees : for Others Rs. 15,000.00

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. *First preference will be given to Faculty of TEQIP -II.*

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 *15th September, 2016.*

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

To confirm participation please send the original Demand Draft with participant colour photo for identity card to CHAIRMAN, CWISS; by September 15, 2016 positively.

Certificate

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

Food and Accommodation

Outstation participants will be provided Sharing accommodation for male and single accommodation for female participants in the Viswasaraya Guest House of IIT Kharagpur as per availability on prior request.

- Category- 1: Rs. NIL [No charges for Food and Accommodation]**
Category- 2: Rs. Candidates have to bear their own expenses for food and Accommodation.

Valedictory Function

Tentative schedule of Valedictory function is on 27th September, 2016 at 5:30 pm followed by a grand lunch at 1:00pm on 27th September, 2016.

How to Reach IIT Campus

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:	15 th Sep. , 2016
Intimation to the applicants	: 16 th Sep. , 2016
Course duration	: Sep. 23 -27, 2016

NOTE:

1. Only selected participants would be informed by E-mail
2. You may bring Laptop on your own responsibility for practice study session.
3. Office : 03222-282500/ 9933792374

REGISTRATION FORM OF SHORT TERM COURSE

On CAD-CAM Application in CNC Machining

(September 23 – 27, 2016)

1. Name: _____

[Block Letters; Provide as appearing on your Institute or Official]

2. Category [Student/ Academic/Industry]: _____

- If Academic
- Designation:
- Institute Name:
- AICTE approved Institute [Yes/ No] :
- TEQIP – II Fund Institute [Yes / No] (compulsory) :

3. Gender (M/F): _____

4. Date of Birth : _____

5. Organization: _____

6. Highest academic Qualification: _____

7. Address for Correspondence: _____

8. Telephone/Fax: _____

9. Mobile: _____

10. E-Mail (Compulsory): _____

11. Accommodation required (Yes/No) _____

12. Bank Draft Details:

- Draft No.: _____ Date: _____
- Amount Rs.: _____
- Issuing Bank with Branch Code: _____

Signature of the participant

Approval for TEQIP-II Sponsorship participant

We certify that our institute is under TEQIP-II and the above applicant is a faculty/ Student of our organization. He/She is recommended for the course during September 23- 27, 2016 at IIT Kharagpur.

DATE:

Head of the organization
Sign. and Seal of the Organization