

# FACULTY DEVELOPMENT PROGRAM

on

## "Computer Based Product Design and Manufacturing"

Organised By

**Electronics & ICT Academy  
IIT Roorkee**



In Association with

**National Institute of Technology  
Uttarakhand**



**Feb 09, 2018 - Feb 13, 2018**

**Experts from Academia/Industry**

**Dr. Inderdeep Singh**  
Department of MIED, IITR  
Academia Expert

**Supported by**

Ministry of Electronics & Information Technology  
Government of India



**Venue**

**National Institute of Technology  
Uttarakhand**

## Objective of the Course

- Highlight the importance of computers in product design and development.
- Enhance the product design skills of the participants.
- Create awareness of latest tools and techniques of product lifecycle management.
- Highlight rapid prototyping techniques for product development.

## Benefits and Outcomes of the Course

- Transforming insights into design principles.
- Brainstorming ideas and developing prototypes.
- Acquiring the skills needed to enhance the product life cycle.
- Knowledge and skill regarding the modeling and simulation tools.

**At the end of the program, participants will be able to understand:**

- Creative Engineering Design and Design Innovation.
- Product Development Cycle.
- Design for Manufacturing and Assembly.
- Product Ergonomics.
- Rapid Product Development and 3D Printing.
- CAD/CAM tools for Product Design and Manufacturing.
- Flexible Manufacturing System.
- Programming for CNC Machines.
- Automated Quality Control System.
- Working and Applications of CMM.

## Focus Areas

- Introduction to Computer Aided Design.
- Product Management.
- Introduction to Rapid Prototyping.
- Finite Element Modeling and Analysis.
- Fundamentals of Numerical Control.
- CNC Programming.
- Concurrent Engineering.
- Flexible Manufacturing System.

## Program Features

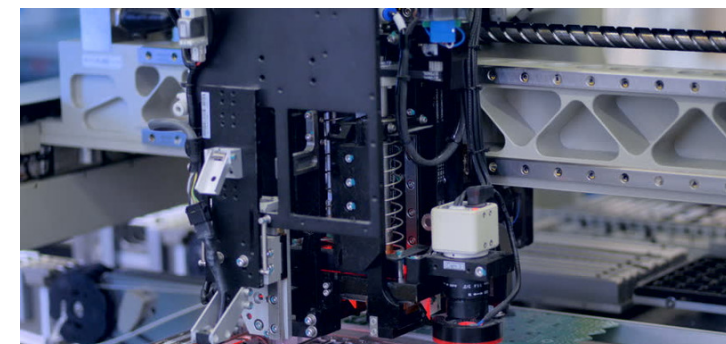
- The program is split into lectures and labs sessions.
- Hands-on experience on basic & advanced-level topics.
- Interaction & learning with experts from academia & industry.
- Certificates to the participants by E&ICT Academy IITR.

## Coordinators

**Dr. Sanjeev Manhas**  
(PI, E&ICT Academy,  
ECE Dept, IITR)

**Dr. Inderdeep Singh**  
(Local coordinator,  
MIED, IITR)

**Dr. Pawan Kumar Rakesh**  
NIT Uttarakhand



## Who Can Attend ?

Program is open to faculty members/research scholars/PG students from colleges/universities, and industry personnel working in the concerned/allied discipline.

## Registration Fee

Faculty members: ₹1500/-  
Research scholars: ₹1500/-  
Persons from Industry: ₹2000/-

## Payment Details

DD in favor of "Dean SRIC IIT Roorkee" payable at Roorkee

"OR"

Make Online Payment by NEFT/RTGS on given detail

Account Name: Research Project, IIT Roorkee  
Account Number: 33012172097  
IFSC code: SBIN0001069

## How to Apply

Step 1: Make Payment

Step 2: Participants may fill registration form through Academy website (<http://eict.iitr.ac.in>).

OR

Step 2: Send a duly filled-in registration form along with Demand Draft to Academy address.

Mr. Prateek Sharma, EICT Academy, ECE Department, IIT Roorkee-247667

## Important Dates



**Last Date For Online  
Registration:  
5th Feb 2018**

**Last Date For Receiving  
Application: 6th Feb, 2018**



## EICT Academy IITR

Electronics and ICT Academy (E&ICT) at IIT Roorkee (funded by Ministry of Electronics and Information Technology) aims to enrich and upgrade teaching and research competences of engineering faculties of institutes/colleges by conducting courses and workshops in fundamentals as well as emerging areas of E&ICT and enabled areas. The programs are conducted by well-known industry partners, resource persons from leading academia and experts from renowned R&D organizations.



## Activities of the Academy

- Specialized training on basic and advanced level topics with hands-on experience in the emerging areas of Electronics & ICT.
- Setup the activity centers to conduct FDPs locally at institutes/colleges.
- Curriculum development for the industry.
- Continuing Education Programme for students/working professionals.
- Design, develop and delivery of specialized modules for specific research areas in industry.

## Faculty Development Program

on

"Computer Based Product Design and Manufacturing"

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## REGISTRATION FORM



Applicant Name \_\_\_\_\_

Gender: \_\_\_\_\_

Category (GEN/OBC/SC/ST): \_\_\_\_\_

Designation: \_\_\_\_\_

Name and Address of the

Organizatio/Institute: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

City/Town: \_\_\_\_\_

Email: \_\_\_\_\_

Phone Number: \_\_\_\_\_

Do you need Accommodation?

(Yes/No): \_\_\_\_\_

DD Number: \_\_\_\_\_

Date: \_\_\_\_\_

Issuing Bank: \_\_\_\_\_

Payable at: \_\_\_\_\_

**Signature of the Applicant**

## Contact Us

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