

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.

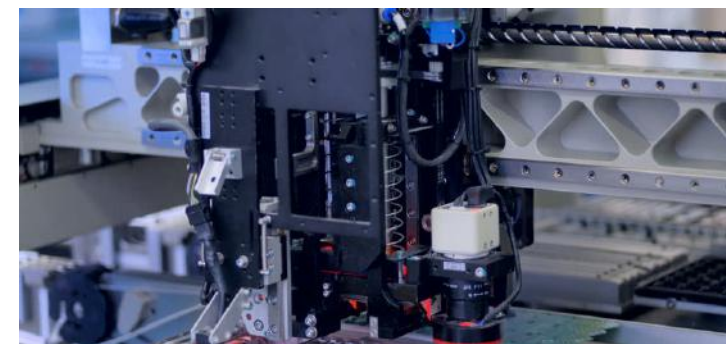
Program Features

- 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 **Dr. Inderdeep Singh**
(PI, E&ICT Academy, (Local coordinator,
ECE Dept, IITR) 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

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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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