10TH - 14TH JANUARY, 2022

E-WORKSHOP ON COMPUTER INTEGRATED MANUFACTURING

Prologue

Mechanical Engineering Department of National Institute of Technology, Hamirpur is organizing five days e Workshop on Computer Integrated Manufacturing which is one of the most current research issues among manufacturing Industry which encompasses all sphered of technology, materials and applications during January 10 –14, 2022. We look forward to your participation and support in making this Workshop a success.

CONTACT DETAILS

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Dr. Dilshad A. Khan
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Organized By

Department of Mechanical Engineering

National Institute of Technology

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THEME & OBJECTIVES

In an era where computers are at the core of production processes worldwide, understanding computer-integrated manufacturing (CIM), and how it can improve operations, is more crucial than ever which is the overall theme of this Workshop.

Hence, the contents of Workshop have been designed with following objectives:

In straightforward terms, CIM is the technique of using computers to control an entire production process. It is commonly used by factories to automate functions such as analysis, cost accounting, design, distribution, inventory control, planning and purchasing. The detailed objectives of Workshop are:

- To understand the basic constituents of CIM in terms of generic and customized implicational scenario
- To introduce the best possible models available for CIM and Simulation oriented software's
- To understand the methodology to develop models and procedure for Simulation among CIM aspirants
- To know the scope of CIM among the Indian scenario
- To discuss operations flow within CIM among different manufacturing units
- To know the different approaches for integration of CIM with different Industrial setups.

Computer Integrated Manufacturing is among the widely accepted topic for research among engineering postgraduate and research scholars. Definitely, the expert lectures along with hands on practical sessions will help the evolving researchers to get familiarized and acquainted with the aforesaid topic. It will also motivate the faculty and students of the department to pursue research in this area. Moreover, the course will enhance the computational skills and capabilities of the participants exposing them to the simulation software's like ANSYS and algorithm development using MATLAB.

EXPERT SPEAKERS AND PARTICIPANTS

Faculty from IISc, IITs, NITs and other premier institutions, will deliver the talk and participate.

ISSUES FOR DISCUSSION

- Manufacturing Enterprises
- Conceptualization, structure and applications of CIM
- System Design and Technology
- Planning and Scheduling Functions in CIM
- Concept of Modelling and Simulation in CIM
- Materials and Manufacturing
- Flexible Manufacturing Systems
- Intelligent Manufacturing Techniques

HOW TO APPLY

STEP 1: The SBI-I collect has following steps
The interested participants should register by paying the registration fee at SBI-I collect and filling the Google form through the below link:

1. Visit SBI collect at https://www.onlinesbi.com/sbicollect/icollecthome.htm
2. Click on Proceed after accepting terms and conditions.
3. Select State of Corporate/ Institution:
4. Himachal Pradesh and Type of Corporate/Institution as Educational Institution and click Go.
5. Select Educational Institutions Name: NIT Hamirpur
6. Select Payment Category: WORKSHOP STC FDP CONFERENCE (Last option)
7. Fill up all the details.
   a. Write TITLE of e-Workshop
   b. Organizing Department
8. Address: Filling Postal code is must
9. Submit the form and generate the receipt.
10. Fill the google form for comple

STEP 2: Fill the google form from the link/bar code given below

https://forms.gle/mkRuspjRDweaWNKW9

REGISTRATION FEE DETAIL

Participants	Amount
Faculty members or Participants from Academia/R&D Labs	500/-
Students (UG, PG, PhD)	200/-
Participants from Industries	1000/-

EXPERT TALK: FEW AT A GLANCE

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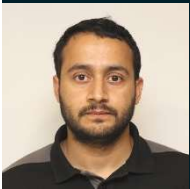IIT Roorkee
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