WHO CAN PARTICIPATE

This training program is specifically designed for industry personnel, scientists, postdoctoral fellow and faculty members of the institutes/ universities/research labs who are keenly looking for digital manufacturing as a tool for a wide variety of applications

REGISTRATION

Name:
Designation:
Institute:
Address:
近世界 1000年,于15年,1500年,150
Email ID:
Contact No:
Undertaking:
I shall abide by rules and regulations and shall attend course. Failing which certificate may not be issued.
Signature of Participant

CONTACTS

Prof. Santosh Kumar, Dr. Pawan Sharma & Dr. J. P. Misra
Department of Mechanical Engineering
Indian Institute of Technology (BHU), Varansai
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ABOUT NM-ICPS

The National Mission on Cyber-Physical Systems (NM-ICPS) is identified as one such emerging field to have a significant impact on health care, urban transportation, water distribution, energy, urban air quality, manufacturing and governance. The activities envisioned under this Mission will give a impetus to Indian manufacturing via the invention of new products, services and the creation of skilled young human resource from technicians to, researchers and entrepreneurs. It will have modernisation and digitalisation of socio-technical systems and services.

ABOUT IDAPT

The Interdisciplinary Data Analytics and Predictive Technologies (IDAPT) has been regarded as one of the most prominent fields whose progress will add significant impact on various socio-economic issues. At IIT (BHU) five verticals 1)Telecommunications, 2) Power, 3)Road Transport and Highways, 4) Defence Research and Development, and 5) Health and Family Welfare have been identified under IDAPT. The endeavour shall catalyse the creation of skilled young engineers, researchers, technicians, and entrepreneurs, together with human resource at all levels, besides becoming a key contributor to realizing the vision of "Digital India", "Innovate in India", and "Make in India".

Defence Research & Development in IDAPT

Defence Research & Development in IDAPT aims at providing appropriate solutions in crucial areas of defence like (a) border surveillance and role of drones and radars for surveillance, (b) microwave techniques for imaging, (c) stealth technique based on advanced polymer materials, (d) 5G for defence communications, (f) power systems for defence, (g) explosive detection, (h) smart sensors for soldiers and (i) and biosensors for safety and readiness of soldiers etc. To fulfil these objectives, digital manufacturing techniques such as CNC machining plays a significant role. The program is an application-oriented program with an emphasis on the understanding of the technical aspects of CNC machining.

Short Term Course on

Digital Manufacturing:
Part I-CNC
Machining

A TECHNOLOGY INNOVATION HUB
ON
INTERDISCIPLINARY DATA ANALYTICS
AND PREDICTIVE TECHNOLOGY
(IDAPT)

Under

NATIONAL MISSION ON INTERDICIPLINARY CYBER PHYSICAL SYSTEM (NM-ICPS)



23rd - 27th May 2022

Coordinators:-Prof. Santosh Kumar Dr. Pawan Sharma Dr. J. P. Misra

ABOUT INSTITUTE



The Indian Institute of Technology (Banaras Hindu University) owes its existence to Mahamana Pandit Madan Mohan Malviya, Bharat Ratna-the founder of

the first residential university of modern India, the Banaras Hindu University. The three of the erstwhile engineering colleges of BHU, namely BENCO, MINMET and TECHNO, were merged to form the Institute of Technology (IT-BHU) in 1968 to provide an integrated educational base. The IT-BHU has been admitting students through the JEE conducted by the IIT's since 1972, and has been consistently ranked amongst the top few engineering institutions of the country. IT-BHU became IIT (BHU) in June 29, 2012 by an Act of Parliament. The Institute has maintained high academic standard since its inception. It has turned out luminary engineers and administrators who served the nation with great distinction.

ABOUT MECHANICAL DEPARTMENT

Welcome to the Department of Mechanical Engineering at Indian Institute of Technology (IIT BHU), where experienced faculty and highly motivated students - supported by a dedicated staff - experience a unique engineering education. The Department offers academic programmes at three levels leading to Bachelor of Technology (B.Tech.) in Mechanical Engineering, Master of Technology (M.Tech.) in Mechanical Engineering and Decision Science, and Doctor of Philosophy (Ph.D.) degrees. In addition, continuing education programmes in specialized areas are offered on a regular basis for industry professionals and academic staff from other colleges.

EMINENT SPEAKERS (Tentative)

Prof. Pulak M. Pandey (IIT Delhi, India)

Dr. Girish Verma (IIT Indore, India)

Dr. Varun Sharma (IIT Roorkee, India)

Prof. S. K. Sinha (IIT BHU, India)

Prof. Santosh Kumar (IIT BHU, India)

Dr. Meghanshu Vashista (IIT BHU, India)

Dr. Pawan Sharma (IIT BHU, India)

Dr. J. P. Misra (IIT BHU, India)

COURSE CONTENTS:

The major topics to be covered in the short term course are:

- Introduction to Digital Manufacturing and CNC Machining
- Design for CNC Machining
- Introduction to tool path programming and preprocess simulation
- Creating a program for CNC turning machine and CNC milling machine with FANUC control system
- Metrology tools for CNC Machining and quality test of CNC machined parts.
- Practical on dedicated trainer machines of CNC lathe & milling
- Training and hands-on practice on part fabrication using CNC Turning Machine.
- Training and hands-on practice on part fabrication using CNC Wire Cut EDM Machine.
- Training and hands-on practice on part fabrication using CNC Milling Machine.
- Introduction to advancements in CNC Machining, applications, and future directions in CNC Machining.

REGISTRATION DETAILS

Registration link:

https://forms.gle/Do4rC7A9Byu3usCQ8

Last Date of Registration: 20th May, 2022

Registration Fees:

For faculties, scientists and post doctoral

Fellow: Rs. 4000/- (non-refundable)

Industry: 10000/- (non-refundable)

For UG and PG students: Rs. 100 (non-refundable)

Payment may be made by one of the following methods:

- (i) Demand draft In favor of I-DAPT-HUBFOUNDATION Payable at SBI, IIT(BHU) Varanasi.
- (ii) For online payment

Branch: SBI, IIT(BHU) Varanasi

IFSC Code: SBIN0011445

Name: I-DAPT-HUB-FOUNDATION

Account No: 39818711510

Course Mode: Hybrid (Offline/Online)

In case of any difficulty you can contact us at

pawan.mec@itbhu.ac.in;

jpmisra.mec@iitbhu.ac.in