

Organizing Committee

Patron

Prof. D. K. Singh, Director, BIT Sindri

Convener

Prof. Prakash Kumar

PIE Department, BIT Sindri

Co-ordinator

Dr. Surya Narayan Panda

PIE Department, BIT Sindri

Organizing Members

Dr. Rakesh

Mr. A.R.Ansari

Dr. Manowar Hussain

Mr. Abhishek Raj

Dr. Sumanta Mukherjee

Mr. Kashif Hasan Kazmi

Mr. Mukesh Chandra

PIE Department, BIT Sindri

Objective of Workshop

The objective of the workshop is to identify the key industry drivers for innovation in advanced materials and manufacturing technology in the scope of Industry 4.0. It will explore processing and applications of different advanced materials including smart materials and composites, and will also shed light on recent trends in the domains of manufacturing technologies, simulation, and applied IoT. Further, it will help the participants in understanding the ever-evolving concepts of manufacturability. Moreover, this workshop will explore the future scopes of advanced materials, advanced manufacturing technologies, issues, challenges and research opportunities to meet the industry needs.

About the Institute

BIT Sindri was started as College of Mechanical and Electrical Engineering in 1949 in the heart of mines of India. The institute grew and flourished rapidly during the early days under the dynamic leadership of Prof. D. L. Deshpande, the Director, who is regarded as the architect of the institute. The institute is controlled administratively by the Department of Higher and Technical Education, Govt. of Jharkhand. The main aim of the institute is to provide valuable human resources for the industry and society through excellence in technical education and research for sustainable development. The college offers B. Tech. courses in 10 disciplines of engineering namely Mechanical, Electrical, Metallurgy, Production, Chemical, Electronics & Communications, Civil, Mining, CSE, IT besides 10 M. Tech. specializations. The college possesses modern amenities which include multimedia auditoriums, seminar rooms, classrooms, e-library, campus-wide network, well-equipped modern laboratories and state of art Siemens Centre of Excellence to cater to the industry demands.

About the Department

The Department of Production and Industrial Engineering, first in Asia, was started in the year 1955. Currently, the department runs a four years B. Tech program in Production Engineering with 54 intakes. The department has established links with different industries, R&D organizations, consultancy organizations, and academic institutes in the region in furtherance of the cause of manufacturing engineering.



One Week e-Workshop

on

Materials and Manufacturing: Insights into Modern Technologies 2022 (MMIMT-2022)

Date: August 1st - 5th 2022

**Organized by:
Department of Production & Industrial
Engineering
BIT Sindri, Dhanbad
(NBA Accredited)**



About the Workshop

In line with the current trends in manufacturing industries in adaptation and implementation of Industry 4.0, this workshop provides an excellent avenue for the community to keep abreast with the current technological advancements. Recent advancements this new round of revolution in science and technology has led the traditional manufacturing industry in gradual upgradation in the direction of advanced material development and intelligent manufacturing. Smart materials, composites, industrial internet of things, artificial intelligence, 3D printing and product configuration tools are moving towards a new level of interconnected and intelligent manufacturing system which incorporates the latest advances in materials and manufacturing technology. So, the workshop will introduce the recent trends in development of intelligent materials and advanced manufacturing technologies along with modelling and simulation aspects, applied IoT and their applications in the modern industrial scenarios.

Expected Outcomes

After attending this workshop, participants will get an in-depth understanding of the scope of advanced materials along with modern and hybrid manufacturing technologies and systems in the context of the current industrial requirements.

For Any Query

Prof. Prakash Kumar, Convener

Email: prakashkr.prod@bitsindri.ac.in

Contact No: +91-9431340536, +91-8809274758,

Dr. Surya Narayan Panda, Co-ordinator

Email: snpanda.prod@bitsindri.ac.in

Contact No: +91-9439322880

Vision of Department

- To become a center of repute striving continuously towards providing quality education, research and innovation in the field of Production and Industrial Management.

Mission of Department

- Disseminate knowledge through academic programs of the highest quality for undergraduate and postgraduate levels
- Enhancing the interaction between academia and industries thereby benefitting the country and society at large
- Foster an environment of innovation and research addressing real-world problems
- Promote commendable standards of integrity, citizenship and ethical behavior

Resource Persons

IIT, Kharagpur

IIT (ISM) Dhanbad

CSIR-CMERI

NIT, Patna

KIIT, Bhubaneswar

MNNIT, Allahabad

BIT, Mesra

BIT, Sindri

Experts from Industries (SAIL India, TATA Steel etc.)

Topics of workshop

Processing of Composite Materials

Smart Materials

Nano Materials

Advanced Manufacturing Systems

Role of AI in Manufacturing Systems

Computer Aided Manufacturing

Additive Manufacturing

Hybrid Manufacturing

Modelling and Simulation

REGISTRATION

This workshop is open to the faculty members of AICTE/ UGC approved Engineering Institutes/ Universities/ R&D Labs/ Industry person/ Ph.D. scholars/ postgraduate and undergraduate students interested to know about the current status, scope, and challenges about advancements in manufacturing. The interested person should fill the Google form by clicking on the link below or can send the scanned copy of the following registration form to the mail id: snpanda.prod@bitsindri.ac.in

Google form

<https://forms.gle/PFEWokGkUbdKP5k5A>

**No Registration fees is required for attending this Workshop.*

REGISTRATION FORM

Name: _____

Designation: _____

Organization: _____

Area of Work: _____

Email: _____

Contact no: _____

Address: _____

Date: _____ Signature: _____

Important Dates

Last Date of Registration: 27th July 2022

Confirmation for Participation: 29th July 2022

Website: <http://bitsindri.ac.in>

Note: E-Certificate will be provided to participants after successful completion of workshop