AICTE Training & Learning (ATAL) Academy

Faculty Development Program(FDP) on

ADVANCES IN MANUFACTURING: SPECIAL PROCESSES AND PRACTICES

02 nd to 07 th December 2024

BIT Sindri

Organized by

Department of Metallurgical Engineering
BIT Sindri, Dhanbad-828123

COORDINATORS
Prof. B. N. Roy
Dr. Sumit K. Sharma

About the Institute

BIT Sindri is one of the premier institutes of Jharkhand. The Branch of Science and Technology, Govt. of Jharkhand, Ranchi, controls the institute administration. It is academically associated with the Jharkhand University of Technology, Ranchi, which leads assessments, conducts examinations, and awards degrees. All the courses are approved by the All India Council of Technical Education (AICTE). Also, most undergraduate programs are accredited by the National Board of Accreditation (NBA), New Delhi

About the Department

The Department of Metallurgical Engineering, being among the oldest branches of BIT Sindri, was started in the year 1956. Ever since then, it has been playing a vital role in offering and producing skilled engineers to compete in this up-scaling industry. The department offers four years B. Tech degree courses and Two years postgraduate program is also offered to lead to an M. Tech degree with a specialization in metallurgical and Materials Engineering, and Nano Technology. The department is also engaged in research activities, several full-time as well as part-time PhD scholars are currently enrolled and doing research in cutting age technology.

About the FDP

This workshop aims to explore cutting-edge manufacturing techniques, focusing on special processes and best practices that are shaping the future of industrial production. It will bring together experts, researchers, and industry professionals to discuss recent advancements, challenges, and opportunities in advanced manufacturing.

Broad topics to be covered in FDP:

1. Advanced Welding and Joining Techniques
2. Additive Manufacturing Technologies
3. Surface Engineering and Modification
4. Processing of High-Performance Alloys
5. Industry 4.0 and Smart Manufacturing
6. Novel Material Characterization Methods
7. Corrosion and Wear Resistance Improvements
8. Sustainable Manufacturing Practice

Details of Registration

Registration has to be done only through

https://atalacademy.aicte-india.org

1. Visit: https://atalacademy.aicte-india.org
2. Login to the Portal:
3. Select Mode: Online, Select Month: December
4. Search and Select: 1730868780 or Advances in Manufacturing: Special Processes and Practice
5. Click on "Apply"

For Queries contact: 📞 +91 9564440159

FREE REGISTRATION for all participants

Online Platform

The entire program will be conducted through online mode. The details of the online platform and meeting link will be communicated to the selected candidates through their registered email. Assessment of topics covered will also be done through online mode. A minimum of 80% attendance is required to earn the certificate.

AICTE –Training and Learning (ATAL) Academy

The Government of India in association with AICTE launched the ATAL academy in 2018. The Vision of ATAL Academy is to empower faculty to achieve goals of Higher Education such as access, equity, and quality.

Patron

Prof. Pankaj Rai (Director of B.I.T. Sindri)

Organising Committee

Dr. Anil Kumar Rajak
Dr. Sagram Hembrom
Md Izhar Hussain
Dr. Nand Kishor Kumar
Ms. Kirty Madhavi
Mr. Babul Das
Ms. Monika Gotam

Student Coordinators

Pappu Kumar
Vikash Kr. Singh
Ritika Kumari
Nazia Afreen

TENTATIVE LIST OF RESOURCE PERSONNEL

NAME & DESIGNATION	TOPIC
 **Dr. Gururaj Telasang** Scientist E, International Advanced Research Center for Powder Metallurgy and New Materials (ARCI), Hyderabad,	Powder Bed Fusion by Laser Beam Melting - Tooling applications
 **Dr. Lalit Thakur** Assistant Professor, Department of Industrial and Production Engineering, National Institute of Technology, Kurukshetra	Low cost wear resistant claddings developed by Automated TIG welding process
 **Dr. Anish Kumar Sachdeva** Professor Department of Industrial and Production Engineering, Dr. B.R. Ambedkar NIT, Jalandhar, Punjab 144011, India	MCDM for manufacturing processes
 **Mr. Ravi Shankar** Sr. Manager, Bokaro steel plant, Steel Authority of India Limited (SAIL) Bokaro, Bokaro, 828120, Jharkhand	Reducing Carbon Footprints in Steel Companies:- Challenges and Way Forward.
 **Dr. Subhasisa Nath** Senior Research Engineer- Electrification High-Value Design/ Advanced Production Systems, Manufacturing Technology Centre, Coventry, UK	Laser in Battery Manufacturing
 **Mr. Gopi Shankar** Sr. Manager, Sintering Plant, Bokaro steel plant, Steel Authority of India Limited (SAIL) Bokaro, Bokaro, 828120, Jharkhand	Sintering: Measures to improve productivity
 **Dr. Akhlaqur Rahaman** School of Industrial Automation Engineering Institute of Technology (EIT), Melbourne Campus, Australia	Transitioning from Industry 4.0 to 5.0
 **Dr. M. Gopi Nath** Assistant Professor, Department of Mechanical and Aerospace Engineering, IIT Hyderabad	Laser surface engineering and its real-time monitoring
 **Dr. Alok K. Das** Professor, Department of Mechanical Engineering, IIT-ISM Dhanbad	Unconventional Machining of Materials
 **Dr. Ratnesh Kumar Raj Singh** Associate Professor, Thapar Institute of Engineering & Technology, Patiala, India ratnesh.kumar@thapar.edu	Advancement in wire arc additive manufacturing
 **Dr. J. Dutta Majumdar** Professor Department of Metallurgical and Materials Engineering, Indian Institute of Technology, Kharagpur,	Advanced materials processing techniques
 **Mr. Nitesh Kumar Nirala** Aditya Birla Group, unit Head, Heading Cement Business for 4 plants like Baga, Bagheri, Rajpura & Roorkee unit, House No.C1/1 C/o UltraTech Cement Ltd. Village Baga, PO Kandhar Tehsil Arki, District Solan HP	Advance iron making process
 **Dr. Chaitanya Sharma** Associate Professor, Department of Mechanical Engineering, BIT Sindri	Additive Manufacturing through Friction Stir Welding

Day 1	6:00PM to 6:30PM Inaugural Session 6:30PM to 8:00PM Session 1 Dr. Gururaj Telasang	8:00PM to 9:30PM Session 2 Dr. Lalit Thakur
Day 2	6:00PM to 7:30PM Session 3 Prof. Anish Kumar Sachdeva	7:30PM to 9:00PM Session 4 Mr. Ravi Shankar
Day 3	6:00PM to 7:30PM Session 5 Dr. Subhasisa Nath	7:30PM to 9:00PM Session 6 Mr. Gopi Shankar
Day 4	6:00PM to 7:30PM Session 7 Dr. Akhlaqur Rahman	7:30PM to 9:00PM Session 8 Dr. Muvvala Gopinath
Day 5	6:00PM to 7:30PM Session 9 Prof. Alok Kumar Das	7:30PM to 9:00PM Session 10 Dr. Ratnesh Kumar Raj Singh
Day 6	2:00PM to 3:30PM Session 11 Prof. Jyotsna Dutta Majumdar	3:30PM to 5:00PM Session 12 Mr. Nitesh Kumar Nirala 5:00PM to 7:30PM Session 13 Dr. Chaitanya Sharma

CONTACT DETAILS OF COORDINATORS

Prof. B. N. Roy
Professor
Department of Metallurgical Engineering
BIT Sindri, Dhanbad
Mob. +919934378112
Email: bnroy.met@bitsindri.ac.in

Dr. Sumit Kumar Sharma
Assistant Professor
Department of Metallurgical Engineering
BIT Sindri, Dhanbad
Mob. +919564440159
Email: sumit.met@bitsindri.ac.in

INSTITUTE DETAILS AND ADDRESS

BIT Sindri Po: Sindri Institute District: Dhanbad, Jharkhand, pin-828123
Email: director@bitsindri.ac.in Contact: 0326 235 0495