



In Collaboration  
With  
TEQIP – III

One Week  
Faculty Development Programme

On

## “Mechanical Engineering-Emerging Technologies” (MEET-2021)

May 24<sup>th</sup> to 29<sup>th</sup>, 2021



Organized by

**DEPARTMENT OF MECHANICAL  
ENGINEERING**

**Birsa Institute of Technology, (BIT)  
Sindri, Dhanbad, Jharkhand-828123  
(INDIA)**

Phone: [0326-2350495](tel:0326-2350495), [2350496](tel:2350496)

[www.bitsindri.ac.in](http://www.bitsindri.ac.in)

### *About the Institute*

BIT, Sindri was started as College of Mechanical and Electrical Engineering in 1949. The institute grew and flourished rapidly during the early days under the dynamic leadership of Prof. D. L. Deshpande, the then Director, who is regarded as the architect of the institute. The institute is located at a distance of 28 kms from Dhanbad railway station linked by rail as well as road. It has a sprawling campus of about 450 acres of land near the eastern bank of river Damodar. The institute is fully residential for students as well as teaching and non-teaching staff. The institute is controlled administratively by the Department of Higher, Technical Education & Skill Development, 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, Computer Science, and Information Technology besides 10 M.Tech. specializations. The college possesses modern amenities which include multimedia auditoriums, seminar rooms, class rooms, a state-of-the-art well-stocked rich E-library, well-equipped modern laboratories and campus wide network & State of Art Siemens lab which is regarded as Centre of Excellence to meet the industry demand. The wide range of activities on campus, fully residential hostels, good sports facilities and never dying zeal of staffs and students for pursuit of excellence provides a pleasant and intellectually stimulating, proactive, conducive environment to students to feed their curiosities / interest and help them to prepare for the professional, academic and social life.

### *About the Department*

Mechanical Engineering Department established in 1949. It runs one UG programme of Mechanical Engineering and two PG programme (Heat Power and Machine Design).

The Department is continuously striving to achieve excellence in education, academics and industry oriented research & consultancy work to serve the society. The faculty members of the department are engaged in research in classical as well as upcoming areas of Mechanical Engineering. To meet the research requirements new research laboratories are developed in the areas of Robotics, CAD, CAM, Thermal Engineering, and Manufacturing.

### *About the Course*

The aim of this one week FDP is to enlighten the participants in regards to the emerging technologies in Mechanical Engineering, which will be helpful for them in their future endeavors in teaching learning and research activities. This course includes innovative lectures, demonstration and visualization in emerging trends and technology.

### *Objective*

The objective of the FDP is to bring together the experts from industry and academia to share their experience and exchange their knowledge related to emerging areas of Mechanical Engineering. The FDP will eventually open opportunities for teaching learning, research and consultancy in the upcoming areas of mechanical Engineering.

### *Theme*

The main themes are:

- Drone technology
- Rapid Prototyping
- Bondgraph
- Composite Materials
- Optimization techniques
- Other relevant topics

### *Who Can Attend*

Faculty members, Research scholars (PG and Ph.D) looking to expand their knowledge about Advancement in Mechanical Engineering.

This can also be fruitful for persons working in different industries related to Mechanical engineering.

## Eminent Speakers

Name & Affiliation		Area
Prof. (Dr.) Vikas Rastogi Professor, MED DTU, Delhi		Bondgraph,
Er. Rajkumar Appl. Manager Adroitec Information Systems Pvt. Ltd. Noida		Rapid Prototyping
Prof. (Dr.) S.L verma Professor, MED, NIET, Gr. Noida		Composite Materials
Dr. Vivek Kumar Asstt. Prof., MED SLIET, Longowal		Modelling and simulation
Dr. Anupama Associate Prof, SBAS Galgotias University		Optimization
Dr. Vineet Shekhar Asso. Prof., EE, BIT Sindri		Electrical Controls
Er. Vom Ranjan Singh Co-founder and Technical head, IDR, Noida		Drone Technology

## Organizing Committee

### Patron

Prof. (Dr.) D. K. Singh, Director, BIT, Sindri

### Advisory Committee

Dr. Upendra Prasad – Dean Academic Cum PC TEQIP, BIT Sindri

Dr. P.K Jha, Professor, MED, IIT Roorkee

Dr. B.N Prasad, EX-Professor, NIT Jamshedpur

Dr. S. C. Roy – Prof., MED, BIT Sindri

Prof. Mithilesh Kumar–Asso. Prof., MED, BIT Sindri

Dr. Manoj Kumar– Prof., MED, BIT Sindri

Dr. Vijay Pandey – Prof., MED, BIT Sindri

### Convener

Prof. (Dr.) S.K Singh, HoD, ME, BIT, Sindri

### Course Coordinator(s)

Dr. Chandan Kumar, Asso. Prof., MED, BIT Sindri

Dr. Dhaneshwar Mahto, Asso. Prof., MED, BIT Sindri

### Course Co- Coordinator(s)

Dr. J. N Mahto, Asso. Prof., MED, BIT Sindri

Dr. Chaitanya Sharma, Asso. Prof., MED, BIT Sindri

### Contact Persons:

Dr. Chandan Kumar/Dr. J.N. Mahto

Contact Number's: +91-8506949851/+91-7004065498

Email: chandan.me@bitsindri.ac.in

jnmahto.me@bitsindri.ac.in

### Registration: Before May 20<sup>th</sup>, 2021

[https://docs.google.com/forms/d/e/1FAIpQLSdCZij2CjvEH7xIwnAXz9UFENxJEeHH8zQDW IA41V\\_oqAz8A/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLSdCZij2CjvEH7xIwnAXz9UFENxJEeHH8zQDW IA41V_oqAz8A/viewform?usp=sf_link)

**No registration fee to attend/join this FDP**

**E-Certificate will be provided to all the Participants.**

**Note:** Detailed Schedule will be sent to you to your registered mail ID.

## Vision of the Department

To provide valuable resources for industry and society through excellence in technical education and research in mechanical engineering with moral values for the economic and sustainable growth of the country.

### Mission of the Department

- To offer state-of-the-art undergraduate, post graduate and doctoral programs in mechanical engineering
- To generate new knowledge by engaging in cutting edge research and development in mechanical engineering of new technology.
- To provide conducive environment for collaborative projects with academia and industries.
- To Promote innovation and entrepreneurship.
- To develop professional skills with ethical values.

### Program Specific Outcomes

**PSO1:** Graduates will demonstrate the knowledge of applied mathematics and advanced software tools for thermal, design specification, development such as fabrication, analysis such as testing and operation of the physical systems, components and processes involved in mechanical engineering.

**PSO2:** Graduates will demonstrate the knowledge, skill and attitude to analyse the cause and effects on machine elements, processes and systems.

**PSO3:** Able to pursue a career in mechanical and interdisciplinary fields.