



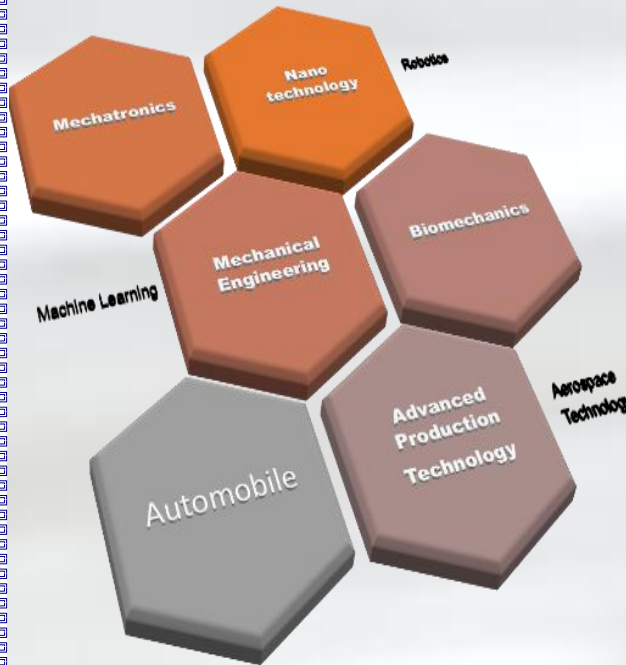
TEQIP-III Sponsored online

Short Term Course (STC)

on

Recent Trends In  
Mechanical Engineering  
(RTME-2021)

1<sup>st</sup> – 12<sup>th</sup> February 2021



**Organized by**

Department of Mechanical Engineering  
Indira Gandhi Institute of Technology  
Sarang,

(AN AUTONOMOUS INSTITUTE OF GOVT. OF  
ODISHA)

Dhenkanal, Odisha, 759146, India

## Registration

**Registration Fee:** There is no registration fee for the program.

**Eligibility:** The program is open to all members of AICTE/UGC affiliated Institutes/Universities *i.e.* Lecturers, Faculty Members, Research Scholars.

**Selection and Certification Criteria:**

The maximum number of participants is limited to 250 on first come first registered basis and the confirmed candidate will be notified latest by 30<sup>th</sup> Jan 2021. The certificates shall be issued to all the active participants.

**How to Apply:**

The participants have to submit duly filled registration form which is also available on the link on or before 30<sup>th</sup> Jan 2021

**Registration Link:**

<https://forms.gle/hcUXDw7CUj3mBCLz9>

**Mode of delivering Lecture:**

The STC will be conducted through online-platform using Cisco Webex software/ Google Meet.

**Patron-in-Chief**

Dr. Satyabrata Mohanta, Director, IGIT, Sarang

**General Chair**

Dr. B. D. Sahoo, Prof. & Head, ME, IGIT, Sarang

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Dr. Anand Gupta, AP, ME, IGIT Sarang

**Principal Coordinator**

Dr. Dhiren Kumar Behera,

Asst. Professor (Selection Grade)

Dept. of Mech. Engineering, IGIT Sarang

Tel: +91- 9776444558,

Email: dkb\_igit@rediffmail.com

**Coordinators**

Mr. Gaurab Kumar Ghosh, Asst. Professor,

Dept. of Mech. Engineering, IGIT Sarang

Tel: +91- 9439028743

Mr. Soumya Ranjan Pradhan, Asst.

Professor, Dept. of Mech. Engineering,

IGIT Sarang, Tel: +91- 8187879392

### About the Institution

Indira Gandhi Institute of Technology (IGIT), Sarang was established in 1982. IGIT Sarang offers Ph.D., PG, UG and Diploma programs in Engineering and Science. All the programs were accredited in the year 2016 by the National Board of Accreditation of AICTE. Each department conducts annually at least one Conference / Workshop for effective dissemination of state-of-art Technologies and research findings for the benefit of teaching faculty and industries. The institute is extremely proud of its alumni, a considerable number of them being entrepreneurs or senior executives in industries both within India and abroad.

### Department of Mechanical Engineering

The Department of Mechanical Engineering has all the infrastructural facilities required for imparting high quality education and is planned to meet the present day needs of the society. The department is well equipped with excellent laboratories provided with state-of-art equipment and experimental facilities. It has also highly qualified and experienced faculty members

### About Short Term Course (STC)

TEQIP-III sponsored two weeks online Short-Term Course on “Recent Trends in Mechanical Engineering (RTME-2021)” to be hosted by the Department of Mechanical Engineering. It is suited for the faculties and research scholars, who wish to overcome the challenges in the field of mechanical engineering *i.e.* plant/industry or related field. The main objective is to provide a common platform to exchange knowledge in the context of global competitiveness and rapidly advancing technologies. This short-term course also intends to equip the participants with advanced tools, techniques and methodologies for solving realistic problems.

### Resource Persons

Faculty members/ Resource Persons from IIMs/IITs/NITs/Centrally funded Institutes/ Institute of excellence will deliver lectures on the most recent innovations, trends and concerns, practical challenges and the problem-solution adopted in the field of Mechanical Engineering.

### Objective of Workshop

- To explore the promising areas of mechanical engineering for academicians and researchers.
- Encourage the growth of knowledge-based industry and stimulate economic growth in country.

Contact for further information:

### **Coordinator-RTME-2021**

**Dept. of Mechanical Engineering,**

**Indira Gandhi Institute of Technology,  
Sarang, Dhenkanal-759146, Odisha,  
India.**

**Mob: +91 9776444558**

**+91 9439028743**

**+91 8187879392**

**All the correspondence are to be made through following email id for STC**

**E-mail: [rtme2021@igitsarang.ac.in](mailto:rtme2021@igitsarang.ac.in)**

# Indira Gandhi Institute of Technology, Sarang

Department of Mechanical Engineering

(AN AUTONOMOUS INSTITUTE OF GOVT. OF ODISHA)

TEQIP III Sponsored Online Short Term Course (STC) on

## Recent Trends in Mechanical Engineering (01st – 12th Feb 2021)

Day	Session	Timing	Speaker	Topic
01/02/2021 (Monday)	Inauguration	10.30 AM – 11.00 AM	Inauguration	
	Session 1 (FN)	11.00 AM-12.30 PM	Prof. M. K. Tiwari (Director-NITIE, Mumbai).	Digital Supply chain management and related issues
	Session 2 (AN)	03.00 PM –4.30 PM	Prof. P. K. Das (IIT Kharagpur)	Left Ventricular Assist Device - the engineering intervention to save the ailing heart
02/02/2021 (Tuesday)	Session 1 (FN)	11.00 AM – 12.30 PM	Prof. Bijan Sarkar (Jadavpur University)	Reliability analysis for Engineering System
	Session 2 (AN)	03.00 PM – 04.30 PM	Prof. S. K. Panda (IIT (BHU), Varanasi )	Bimodular elasticity in nuclear graphite components
03/02/2021 (Wednesday)	Session 1 (FN)	11.00 AM – 12.30 PM	Prof. Akshya Dvivedi (IIT Roorkee)	Developments in Electro Chemical Discharge Machining
	Session 2 (AN)	03.00 PM – 04.30 PM	Prof. Pradeep Kumar (IIT Roorkee)	Taguchi Method and A Case Study
04/02/2021 (Thursday)	Session 1 (FN)	11.00 AM – 12.30 PM	Prof. Abhay Kumar Kuthe (VNIT Nagpur)	Additive manufacturing and industry 4.0
	Session 2 (AN)	03.00 PM – 04.30 PM	Prof. Manikant Paswan (NIT Jamshedpur)	Recent Development in Mechanical Engg., especially Steel Industry
05/02/2021 (Friday)	Session 1 (FN)	11.00 AM – 12.30 PM	Prof. Buddhadeb Oraon (Jadavpur University)	Quality improvement using Robust design
	Session 2 (AN)	03.00 PM – 04.30 PM	Prof. A. Kumar (NIT Jamshedpur)	Industry 4.0 Implementation in Indian Industries

Day	Session	Timing	Speaker	Topic
06/02/2021 (Saturday)	Session 1 (FN)	11.00 AM-12.30 PM	Prof. C. K. Biswas (NIT-Rourkela)	Micromachining
	Session 2 (AN)	03.00 PM – 04.30 PM	Prof. B. D. Sahoo (IGIT Sarang)	Advance cutting tools
08-02-2021 (Monday)	Session 1 (FN)	11.00 AM – 12.30 PM	Prof. D. Pratihar (IIT Kharagpur)	Intelligent Robots
	Session 2 (AN)	03.00 PM – 04.30 PM	Prof. Subhas Panja (Jadavpur University)	Design of Experiment: An introduction
09-02-2021 (Tuesday)	Session 1 (FN)	11.00 AM – 12.30 PM	Prof. Subrata Ku. Ghosh (IIT (ISM), Dhanbad)	Nanolubricants
	Session 2 (AN)	03.00 PM – 04.30 PM	Prof. S. K. Sahoo (NIT Rourkela).	Advanced joining technologies applied for battery tabs in electric vehicles
10-02-2021 (Wednesday)	Session 1 (FN)	11.00 AM – 12.30 PM	Prof. Suman Chakravarti (IIT-KGP)	Microfluidics for Medical Diagnostics
	Session 2 (AN)	03.00 PM – 04.30 PM	Dr. Saurav Dutta (NIT-Rourkela)	Taguchi based Multi-Response Optimization in the field of Manufacturing
11/02/2021 (Thursday)	Session 1 (FN)	11.00 AM-12.30 PM	Dr. Md. Rajik Khan (NIT-Rourkela)	Assessment of physical workload and ergonomic problems among cleaning professionals
	Session 2 (AN)	03.00 PM – 04.30 PM	Prof. Sunil Sarangi (Ex-Director, NIT Rourkela)	An introduction to cryogenic engineering
12/02/2021 (Friday)	Session 1 (FN)	11.00 AM-12.30 PM	Prof. Satyananda Swain (GIFT-Bhubaneswar)	Bio mechanics for Agriculture
	Session 2 (AN)	02.00 PM – 03.30 PM	Prof. Subhankar Paul (NIT Rourkela)	RTME-1
	Session 2 (AN)	03.30 PM – 05.00 PM	Dr. D. K. Behera (IGIT Sarang)	An Introduction to Scheduling and Basics of Production Management
	Valedictory Session	05:00 P.M-05:15 PM	Valedictory	