



## 5-Days Short Term Course

On

### Advanced Material Characterization Techniques and Applications

6<sup>th</sup>-10<sup>th</sup> January, 2021

Organized by

Department of Production and Industrial Engineering

&

Department of Electronics and Communication Engineering,  
National Institute of Technology Jamshedpur



Patron: Prof. Karunesh Kumar Shukla  
Director NIT, Jamshedpur

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HOD, ECE, NIT Jamshedpur  
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HOD, PIE, NIT Jamshedpur

Coordinators: Dr. Tushar Banerjee,  
Asst. Professor, PIE  
NIT Jamshedpur  
&  
Dr. Swagatadeb Sahoo  
Asst. Professor, ECE  
NIT Jamshedpur

#### Advisory Committee

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#### About the Course

Demands from mechanical, aerospace, defense, communication, automotive and medical branches for advanced materials has propelled the development of new generation of materials with much better capabilities as compared to conventional materials. In-depth characterization is indispensable during development stages of such materials in order to achieve desired properties. This course will emphasize on various advanced material characterization techniques and their applications in various engineering fields.

#### About the Institute

National Institute of Technology Jamshedpur was originally founded as Regional Institute of Technology in 1960. Later, on 27<sup>th</sup> December 2002, it was converted to National Institute of Technology along with Deemed University status. The Institute functions under the aegis of Ministry of Education (erstwhile MHRD), Government of India, New Delhi, since April, 2003. The Institute offers B.Tech, M.Tech., M.Sc, M.C.A, Ph.D degrees in various disciplines of Engineering, Sciences, Management and Humanities.

#### About Organizing Departments

##### Production and Industrial Engineering

Department of Production and Industrial Engineering offers undergraduate program in Production and Industrial Engineering, postgraduate program in Manufacturing Systems Engineering, and PhD program in a range of research areas. The Department has well-qualified and motivated faculty members and well-established laboratories to meet the requirements of UG, PG and PhD students.

##### Electronics and Communication Engineering

Department of Electronics and Communication Engineering has its core strength in the leading area of electronics and communication technology. The department offers undergraduate program in Electronics and Communication Engineering, post graduate program in Embedded Systems Engineering and Communication Systems Engineering and PhD program in various research areas. The Department has highly motivated faculty and well established laboratories to meet the requirements of UG, PG and PhD students.

#### External Resource Persons (tentative)

Dr. Rahul Mitra, MME IIT Kharagpur  
Dr. S. Gangopadhyay, ME, IIT Bhilai  
Prof. Rajib Bandyopadhyay, IEE, Jadavpur University  
Prof. S. Paria, CE, NIT Rourkela  
Dr. Satyajit Chatterjee, ME, IIT Indore  
Dr. Ujjwal Chakraborty, ECE, NIT Silchar

#### Resource Persons from NIT Jamshedpur (tentative)

Dr. Subhash Singh, PIE  
Dr. Basanta Bhowmik, ECE  
Dr. Tushar Banerjee, PIE  
Dr. Swagatadeb Sahoo, ECE

#### Intended Attendee

- Students (Ph.D/PG/UG)
- Faculty members of Engineering/Science Institutes
- Industry Persons
- Scientists

#### Registration

**There is no registration fee for the course. Please register through the link below.**

[https://docs.google.com/forms/d/e/1FAIpQLScodizFSWPu7EqZhUf-xtSKGhWLaQ9rJzUx5JiD\\_SqTuSa9Tg/viewform](https://docs.google.com/forms/d/e/1FAIpQLScodizFSWPu7EqZhUf-xtSKGhWLaQ9rJzUx5JiD_SqTuSa9Tg/viewform)

#### Mode of Conduction of the Course

The course will be conducted in online mode preferably through Google Meet. Links will be sent to the registered participants via email.

#### Address for correspondence

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