

**TEQIP -III Sponsored Six Days  
Short Term Course**  
on

**RECENT DEVELOPMENTS IN  
SURFACE COATINGS AND  
COMPOSITE MATERIALS  
(RDSCCM-2019)**  
[May 27<sup>th</sup>- June 1<sup>st</sup>, 2019]

**Coordinators**

Dr. Simanchal Kar  
Dr. Tushar Banerjee  
Dr. Shashi Bhushan Prasad



*Organized by:*

**Department of Manufacturing  
Engineering**  
**National Institute of Technology  
Jamshedpur**



**Organizing Committee**

Patron: **Prof. Karunesh Kumar Shukla**  
Director NIT, Jamshedpur  
Chairperson: **Dr. Shashi Bhushan Prasad**  
HOD, MFG, NIT Jamshedpur  
Coordinators: **Dr. Simanchal Kar,**  
**Dr. Tushar Banerjee,**  
**Dr. Shashi Bhushan Prasad**  
MFG, NIT Jamshedpur

**Advisory Committee**

**Prof. Anand Mukut Tigga, MFG, NIT Jamshedpur**  
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**Dr. Raj Ballav, MFG, NIT Jamshedpur**  
**Dr. Ashok Kumar Jha, MFG, NIT Jamshedpur**  
**Dr. Dharmendra Patel, MFG, NIT Jamshedpur**

**Invited Speakers**

**Dr. Subhasish Basu Majumder, Professor,**  
**Materials Science Centre, IIT Kharagpur**  
**Dr. Rahul Mitra, Professor, Metallurgical and**  
**Materials Engineering Department, IIT**  
**Kharagpur**  
**Mr. Anand Dayal, General Manager, Indo-Danish**  
**Tool Room, Jamshedpur**  
**Dr. Lokesh Pathak, Senior Principal Scientist,**  
**National Metallurgical Laboratory, Jamshedpur**  
**Dr. Pralay Pal, Deputy General Manager, Tata**  
**Technologies Limited, Jamshedpur**

**Intended Attendee**

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

**Registration Form**

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Name: .....

Designation: .....

Organization:.....

Address: .....

Email:.....

Mobile No: .....

Accommodation required (Yes/No):.....

**Payment Details:**

Amount in Rs.....

Transaction ID/DD No.....

Date of Transaction.....

(Please enclose transaction slip/DD)

Sponsored by.....

Name.....

Designation.....

Organization.....

Signature of applicant

Recommendation

Signature of Head of Department/Institution with  
seal

## About the Institute

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

## About the Department

The Department of Manufacturing Engineering was earlier known as Production and Industrial Engineering Department which changed to its current name in 2013. The department offers an 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 experienced faculty members and established laboratories to meet the requirements of UG, PG and PhD students.

## About the Event

The properties required at the surface and bulk of mechanically functional components are different and conflicting in nature. At the surface we require hardness, wear resistance, anti-corrosion properties, while in bulk we require toughness, resilience etc. Such dual properties in a single component can be achieved by depositing a suitable coating on the surface of the bulk material. Composite materials, on the other hand, offer significantly elevated properties as compared to that of their individual constituents. Surface coated products as well as composite materials find key applications in various industrial sectors like automobile, aerospace, chemical, marine, defense etc. The participants of the course will acquire knowledge about recent developments and concepts in the field of surface coating and composite materials, which may be utilized for pursuing research. The short-term course will comprise of expert lectures and laboratory visits.

**Short-term course topics will include, but are not limited to, the following:**

- Surface engineering and characterization process
- Advanced methods for deposition of thin and thick coatings
- Industrial applications of coatings
- Materials in thermal spray, type of coatings, design of coatings
- Design, manufacturing and applications of Composites
- Application of Nano- materials in composites
- Synthesis of 2-D Materials

## Registration Details

**Number of participants:** 50 (maximum)

Registration Fee:

- Students (UG/PG/PhD): Rs. 1000
- Faculty: Rs. 3000
- Scientists/Industry Personnel: Rs. 3000

**Registration Link:**

<https://goo.gl/forms/Sar9wRuPLW1cAqau2>

**Mode of Payment:** Internet Banking/Demand Draft

**Bank Name:** State Bank of India, NIT Jamshedpur Branch

**Account Name:** NIT Jamshedpur

**Account Number:** 33117999641

**IFSC:** SBIN0001882

Registration fee covers registration kit, working lunch and tea during seminar. The registration fee is non-refundable. No TA/DA will be paid to the participant. Participants are requested to fill up the google form or send scanned copy of the duly-filled and signed registration slip to [rdscem2019@gmail.com](mailto:rdscem2019@gmail.com) latest by 10<sup>th</sup> May, 2019. **On spot registration is also admissible but after prior approval from the organizers.** For further queries please contact coordinators.

## Accommodation:

The participants may be provided accommodation in the institute hostels depending on availability and on a nominal payment basis as per actual on first-cum-first serve basis. Accommodation can also be booked in nearby hotels directly or through prior information to organizers.

## Address for correspondence

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