

## ABOUT MNIT JAIPUR

Malaviya National Institute of Technology (MNIT), Jaipur is one of the premier NITs designated with the status of “Institute of National Importance” by MHRD located in a central part of Jaipur city and spread over 325 acres of lush green area. This institute was established in the year 1963 as a joint venture of the Government of India and Government of Rajasthan. The college was inspired by the great educationist and freedom fighter Pt. Madan Mohan Malaviya and thus named as Malaviya Regional Engineering College (MREC). The institute was upgraded to National Institute of Technology and was declared deemed university on June 26, 2002. Since then, the Institute started offering B. Tech. (Bachelor of Technology) degree instead of B.E. (Bachelor of Engineering) degree. MREC now known as MNIT, aims to set higher standards of academics to become a world class Institute.

## ABOUT MECHANICAL ENGINEERING DEPARTMENT

Department of Mechanical Engineering at MNIT Jaipur, where experienced faculty and highly motivated students - supported by a dedicated staff - experience a unique engineering education. The Department offers academic programmes at three levels leading to Bachelor of Technology (B.Tech.), Master of Technology (M.Tech.), and Doctor of Philosophy (Ph.D.) degrees. In addition, continuing education programmes in specialized areas are offered on a regular basis for industry professionals and academic staff from other colleges.

## PATRON

**Prof. Udaykumar R. Yaragatti**

Director, MNIT Jaipur

## CONVENERS

**Prof. G. S. Dangayach**

Prof. and Head

Mechanical Engineering Department

**Prof. Awadhesh Bhardwaj**

Mechanical Engineering Department

## COORDINATORS

Dr. Amar Patnaik

Dr. Amit Singh

Dr. M. L. Meena

Dr. Kanupriya Sachdeva

## CONTACT PERSON

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Engineering

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## MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

TEQIP Sponsored

Indo-Portugal Bilateral Workshop

On

**“Protective coatings: low friction  
and wear resistance”**

**(January 29th to 2nd February, 2018)**



**ORGANIZED BY:**

**MECHANICAL ENGINEERING  
DEPARTMENT  
MALAVIYA NATIONAL INSTITUTE OF  
TECHNOLOGY, JAIPUR  
(RAJASTHAN)-302017  
([www.mnit.ac.in](http://www.mnit.ac.in))**

## ABOUT THE WORKSHOP

This work will provide an explanation of Protective coatings, deposition techniques, tribology, corrosion, hard coatings, low friction, self lubrication, applications, machining, demolding, challenges, multifunctionality, local sensing. The workshop is addressed to scientists, professionals, company engineers, R&D managers and graduate students in the fields of Engineering, Chemistry, Physics, Applied and Fundamental Sciences. This course is especially of interest to those dealing with phenomena involving applications where harsh environments and extreme loading conditions occur, in order to get acquainted with the traditional background and the most recent developments of this discipline.

## COURSE CONTENT

- Coatings preparation
- Characterization techniques
- Mechanical characterization of the coated materials
- Friction and wear
- Thermal stability
- Hard coatings of metallic and nitride systems
- The application of self-lubricating coatings
- Development of coatings for high temperature applications
- Closing thoughts on the future of hard, corrosion and wear resistant coatings for mechanical applications

## RESOURCE PERSONS

Faculty members from Malaviya National Institute of Technology Jaipur and some experts from other organizations

## INTERNATIONAL EXPERTS

**Prof. Albano Cavaleiro**

**Dr. Filipe Fernandes**

**Mr. Diogo Cavaleiro**

Department of Mechanical Engineering,  
University of Coimbra  
Coimbra, Portugal

## WHO CAN ATTEND

Faculty members from reputed academic institutions. Research scholars and postgraduate students from reputed academic institutions, Industry experts

## REGISTRATION FEE

Students/Research scholars : Rs. 1000/-

Faculty from academia : Rs.3000/-

Professionals from Industries: Rs.4000/-

The fee should be submitted, along with the filled-in registration form through A/C payee Demand Draft drawn in favour of “**Registrar, MNIT Jaipur**”.

**Last date of Registration: ~~January 15, 2018.~~**

**Revised date : January 25th 2018**

## GENERAL INFORMATION

Accommodation and travelling expenses are to be borne by the participants/ sponsoring agency. Limited accommodation on actual charges may be available at MNIT Guest House II/ Hostels. A request for this need to be made in advance as per Institute norms. The participants will not be paid any TA/DA. Working lunch will be provided by the organizers.

## REGISTRATION FORM

**TEQIP Sponsored**

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**“Protective coatings: low friction  
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Name.....

(In block letters)

Designation.....

Organization.....

Academic Qualification.....

Specialization.....

Mailing Address.....

.....

.....

Telephone No. (With STD code).....

E-mail.....

Accommodation required Yes/No

Details of registration fee

DD No. .... Date .....

Bank Name.....

Amount Rs.....

Date .....

Signature of Applicant

Signature of Sponsoring Authority with seal