

## REGISTRATION FORM

Department of Mechanical Engineering  
National Institute of Technology Karnataka, Surathkal  
TEQIP-II Sponsored Two-day National Workshop on  
TRIBOLOGY FRONTIERS IN DESIGN AND  
MANUFACTURING

[Send PDF copy of this form by mail to [tfdm2016@gmail.com](mailto:tfdm2016@gmail.com)  
Please do not send by post]

**October 24 - 25, 2016**

Name (in Block letters):  
Designation:  
Highest Qualification:  
Department:  
Mailing Address:

Mobile: Email:

Accommodation required? YES / NO

### DECLARATION BY THE PARTICIPANT

The information furnished above is true to the best of my knowledge. If selected, I shall attend the programme for the entire duration. I also undertake the responsibility to inform the coordinator sufficiently in advance, in case I am unable to attend the programme.

Date: Signature of Applicant

Place: Signature  
Date: Head of the Department/  
Institution

## Two-day National Workshop on TRIBOLOGY FRONTIERS IN DESIGN AND MANUFACTURING

October 24 – 25, 2016

Sponsored by TEQIP-II



### Coordinators

**Dr. M. R. RAMESH**

**Dr. SRIKANTH BONTHA      Dr. D. CHAKRADHAR**



Organized by

**Department of Mechanical Engineering  
National Institute of Technology Karnataka  
Surathkal, Srinivasnagar P.O. Mangaluru - 575 025  
[www.nitk.ac.in](http://www.nitk.ac.in)**

### HOW TO REACH NITK

Being situated right on the NH-66, the Institute is very well connected by bus routes to the North and South. Mangalore is also connected by NH-48 to Bangalore and there are a number of luxury buses plying daily between Mangalore and Bangalore all through the day. Surathkal, on the Konkan Railway line (linking Mumbai to Kanyakumari), is the nearest railway station and is a stopover for most trains passing through Konkan Railway. While Surathkal and Kankanady (Mangalore Jn.) are the closest alighting points for visitors coming by train from north: Mangalore Central is the terminus for many trains from South India. The Mangalore (Bajpe) airport is just 20 km from the campus.

### IMPORTANT DATES:

Last date for receipt of application: **20<sup>th</sup> October, 2016**  
Intimation about selection: **21<sup>th</sup> October, 2016**  
(Only through e-mail)

### Contact Information of Coordinators:

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## **NITK SURATHKAL**

Since its inception in 1960, National Institute of Technology Karnataka (NITK), Surathkal has established itself as a premier Institution, engaged in imparting high quality technical education and supporting and development activities. NITK has conferred the status of an Institution of National Importance vide NIT Act No.29 of 2007 by Govt. of India and is consistently ranked as one of the top ten technical institutions in India. Presently, NITK offers 9 Bachelors, 28 Master's and Doctoral Degree programmes.

NITK is committed to enhance capabilities and potential of our human resources with the objective of transforming them into leaders in their chosen areas of interest. Our vision is to strive for excellence, be globally competitive in technical education and focus on knowledge assimilation, generation and dissemination. The year-long activities during the occasion show-cased the glorious contributions of NITK in various fields of its activities and projected new initiatives for the coming years. The institute is located 22 kilometres north of Mangalore City along the Kanyakumari-Mumbai National Highway-66, amid 300 acres of sylvan surrounding with the picturesque Western Ghats on the east and sun-kissed sands of the Arabian Sea to the west.

## **DEPARTMENT OF MECHANICAL ENGINEERING**

Department of Mechanical Engineering established in 1960, the oldest and largest department of NITK, has earned a good reputation as a centre for academic, research and industrial consulting activities. Academic Programmes leading to B. Tech. degree in Mechanical Engineering, M. Tech. degree in Manufacturing Engg., Mechatronics Engg., Thermal Engg. & Design and Precision Engineering, and Ph.D degree are currently offered by the department. Laboratories with state of the art equipments, highly qualified faculty and dedicated supporting staff provide an ideal environment for academic and research pursuits.

## **ABOUT THE WORKSHOP**

Tribology is an interdisciplinary field that utilizes skills from Mechanical Engineering, Materials Science and Engineering, Chemistry and Chemical Engineering etc. When there is an interaction between the two bodies Tribology comes into picture. In practice, while designing and manufacturing of a product one has to concentrate on

the relative motion between two bodies. Manufacturing operations present extremely demanding applications of Tribology. Tribological phenomenon are important for viability, optimization of most design and manufacturing processes. The scope of this workshop is to understand the basics and fundamental concepts of tribology such as elastic and elasto-plastic deformation, surface interaction at the micro and nano scale. Modern Tribological techniques which are used to improve the feasibility of design and manufacturing will be discussed.

## **RESOURCE PERSONS**

**Dr. Vamsi Krishna Balla**, CSIR - Central Glass and Ceramic Research Institute, Kolkata.

**Dr. Manish Roy**, Defence Metallurgical Research Laboratory, Hyderabad.

**Dr. A. P. Harsha**, Indian Institute of Technology (BHU), Varanasi.

**Dr. P. Ram Kumar**, Indian Institute of Technology Madras, Chennai.

**Dr. Chakradhar Byreddy**, DNV GL Energy, Bangalore.

**Mr. Dharmesh Gala**, Anton Paar India Pvt. Ltd., Mumbai.

**Mr. N. M. Dube**, Ducom Instruments Pvt. Ltd., Bangalore.

**Mr. Rishi Mukherjee**, Ducom Instruments Pvt. Ltd., Bangalore .

**Mr. Atul Kelkar**, Oerlikon Balzers Coatings India Pvt. Ltd. Bangalore.

## **ELIGIBILITY AND SELECTION CRITERIA:**

Programme is open to faculty, Research Scholars and PG students of Engineering Colleges. Completed registration form should be send by email to [tfdm2016@gmail.com](mailto:tfdm2016@gmail.com) on or before **20<sup>th</sup> October, 2016**. The selected participants will be informed of their selection via email by **21<sup>st</sup> October, 2016**.

## **REGISTRATION**

**No registration fee.** Participation certificate will be provided. Participants need to take care of their travel and food expenses.

## **ACCOMMODATION**

Limited accommodation may be provided to outstation participants on shared basis in the institute guest houses/ hostels on prior request. Participants will have to bear the boarding and lodging expenses.