

**TEQIP III Sponsored  
National Level**

**SHORT TERM TRAINING PROGRAMME**

**ON**

**Basics of Tribology and Its Industrial  
Engineering Applications (BTIEA - 2018)**

**October 22 - 26, 2018**

**COORDINATORS**

**Dr. B. M. Sutaria  
Dr. Sandeep Soni**



**ORGANIZED BY**  
**Mechanical Engineering Department**  
**Sardar Vallabhbhai National Institute of**  
**Technology, Surat -395 007, INDIA**

*Industrial Exposure at*

**SCHAEFFLER**



**About the Institute:**



Sardar Vallabhbhai National Institute of Technology (SVNIT) Surat is one of the twenty National Institutes of Technology in India set up with the objective to provide high quality technical education to meet the needs of the Nation in the present competitive world. SVNIT is situated on Athwa-Dumas Road, Surat. The campus is opposite to the Ichchhanath Temple, piplod. The campus is spread over 250 hectares of lush green forest, which is midway between the Surat Domestic Airport and Surat Railway station, and is well connected by city buses and local trains. The campus is around 10 km from the Surat Railway station.

**About Department:**

Established in 1961, the department of Mechanical Engineering at SVNIT offers Under Graduate course in Mechanical Engineering and Post Graduate programs in Turbo-machines, CAD-CAM, Mechanical Engineering, Thermal System Design and Manufacturing Engineering. The department also offers Ph.D. programs to promote basic research activities in the abovementioned areas. The consulting services in diverse fields of Mechanical Engineering are carried out for local government, semi-government, non-government organizations, private firms etc. in the region with the support of well-equipped laboratories and advanced computing facilities.

**Introduction:**

One week short term training program “**Basics of Tribology and Its Industrial Engineering Applications (BTIEA - 2018)**” is scheduled to be held during October, 22 - 26, 2018. The aim of the program provide a platform in which participants get knowledge about the basics of Tribology & its industrial applications. It will help to bridge the gap between theory and its real application in industry.

**Objective:**

The objective of this program is to train the faculty members, research scholars, young scientists, and post graduates students of various organizations. The objectives of workshop is to provide a platform for interaction and exchange of ideas in the field of Tribology and its industrial applications from national academic institutes, research laboratories, and relevant industries like FAG India Baroda, ABC Bharuch etc. This workshop involves invited lectures by distinguished experts from NIT's, IIT's, IISC, MMMUT, Gorakhpur and reputed industries in the field of Industrial Tribology and maintenance, condition monitoring and its Applications.

**Topics to be covered:**

- Fundamentals of Tribology
- Tribological Studies in Automobiles
- Theories on Friction and Wear
- Bearing Tribology
- Modeling & Simulations
- Bearing Failure Analysis
- Materials for Tribology Applications
- Design of Tribological Elements
- Engine Tribology
- Condition monitoring, Diagnosis & Maintenance
- Lubricants - MR Fluid and its Applications
- Measurement Techniques of Tribology
- Bio Tribology
- Industrial Case Studies

### IMPORTANT DATES

Last date of receipt of application: 12.10.2018  
Notification of confirmation (By Email): 15.10.2018

#### Eligibility:

This programme is an interdisciplinary in nature so faculty members, research scholars and PG students from all background of engineering, mathematics and basic sciences are eligible for this Short Term Training Program (STTP). Scientists who are working in the R&D organizations/ Industry persons can also attend this programme.

#### Selection:

Since the numbers of seats are limited to 30, the selection will be made on *first cum first serve* basis and intimation will be sent to the candidates by email as per the schedule. Certificates will be issued to the participants only after attending the complete course. Accommodation may be provided on payment basis in institute hostels of SVNIT provided earlier request is made in the registration form.

#### Contact Persons

**Dr. B. M. Sutaria**  
*bms@med.svnit.ac.in*  
+91-9427421615

**Dr. Sandeep Soni**  
*s.soni@med.svnit.ac.in*  
+91-9727337702

### REGISTRATION FEE

For Persons from Industries/R&D: Rs. 3000/-  
For Faculty From Engg. College: Rs. 2500/-  
For Students / Research Scholars: Rs. 1500/-

The **non-refundable registration fee** to be sent in the form of a DD in favor of “**Director, SVNIT - TEQIP IRG, Surat**” payable at SBI, SVRCET Branch Surat.

In case, **if a candidate is not selected** for the training program, then the DD sent by him/her will be **sent back** to his/her address before the beginning of the training program.

#### Resource Person:

Distinguished experts from IITs, NITs and MMMUT, Gorakhpur, well known Industry and Universities will be invited for delivering lectures.

### ORGANIZING COMMITTEE

Dr. K. P. Desai, Professor & Head,  
Mechanical Engineering Department, SVNIT Surat.

Dr. D. V. Bhatt, Professor,  
Mechanical Engineering Department, SVNIT Surat.

Dr. D. P. Vakharia, Professor,  
Mechanical Engineering Department, SVNIT Surat.

Dr. J. V. Menghani, Assistant Professor,  
Mechanical Engineering Department, SVNIT Surat.

Shri S. N. Pandya, Assistant Professor,  
Mechanical Engineering Department, SVNIT Surat.

Er. R. P. S. Negi, M.D., Schaeffler India Limited,  
Vadodara

### PATRON

**Prof. S. R. Gandhi**  
Director, SVNIT, Surat

### REGISTRATION FORM

*TEQIP III Sponsered*  
*National Level*  
Short Term Training Programme  
On

**Basics of Tribology and Its Industrial  
Engineering Applications (BTIEA - 2018)**  
October, 22-26, 2018

**Organized by  
Mechanical Engineering Department  
SVNIT, Surat**

Full Name (Block Letter):  
.....

Name of College/Institution/Organization:  
.....

Qualification: .....

Designation: .....

Address: .....

Pin code: .....

Phone No.: .....

Mobile No.: .....

E-mail: .....

Do you need accommodation: ( Yes/ No ):

I have enclosed the registration fee of  
Rs.....by D.D. No .....  
Dated.....in favour of “**Director, SVNIT –  
TEQIP IRG, Surat**” payable at **SBI, SVRCET Surat  
Branch.**

Place:

Date:

Signature of the participant

Duly filled registration form must reach to Department of Mechanical Engineering, SVNIT-Surat before last date of receipt of registration form by post/by hand along with registration fee.