

*A Self Sponsored*

**ONLINE**

## **SHORT TERM TRAINING PROGRAM**

**ON**

### **3<sup>rd</sup> Basics of Tribology and Its Industrial Engineering Applications (BTIEA - 2024)**

**August 20 - 24, 2024**

#### **Coordinators**

Dr. Sandeep Soni  
Dr. B. M. Sutaria  
Dr. S. N. Pandya



#### **Organized by**

Department of Mechanical Engineering  
Sardar Vallabhbhai National Institute of  
Technology, Surat -395007, INDIA

## **About the Institute**



Sardar Vallabhbhai National Institute of Technology (SVNIT) Surat is one of the 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 the 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**

The five days Online Short Term Training Program (STTP) on “Basics of Tribology and Its Industrial Engineering Applications (BTIEA - 2024)” is scheduled to be held during August 20 - 24, 2024. 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.

### **Objectives**

The objective of this program is to train the faculty members, young scientists, research scholars and post graduate students of various organizations. The objectives of the STTP is to provide a platform for interaction and exchange of ideas in the field of materials tribology and its applications from national academic institutes, research laboratories, and relevant industries. This training programme involves invited lectures by distinguished experts from NIT's, IIT's, IISC and reputed industries in the field of machine design and advanced tribology of materials. The proposed training program will bring together faculty members (cum research scholars) from different engineering and industrial fields to establish new collaborations and research.

## Topics to be Covered

- Fundamentals of Tribology
- Tribological Studies in Automobiles
- Theories on Friction and Wear
- Bearing Tribology
- 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

## Eligibility

This program 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 60, the selection will be made on *first come first serve* basis and intimation will be sent to the candidates by email as per the schedule. E-Certificates will be issued to the participants only after attending the complete course.

## Resource Persons

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

## Organizing Committee

### Patron

Dr. Anupam Shukla  
Director, SVNIT, Surat

### Chairman

Dr. A. A. Shaikh  
Head, Department of Mechanical Engineering, SVNIT, Surat

### Coordinators

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## Important Dates

Last date of receipt of application 17/08/2024

Notification of confirmation (By Email) 18/08/2024

## Registration Fee & Bank Details

Registration Fee including 18% GST:  
Rs. 472/- for student  
Rs. 590/- for faculty and  
Rs. 1180/- for person from industry

The non-refundable registration fees should be paid only by **ONLINE TRANSFER** in account of:

Name of the beneficiary (In favor of):  
Director SVNIT-CCE  
Account Number: 37030749143  
Branch code: 03320  
IFSC code: SBIN0003320  
MICR code: 395002012  
Nature of Bank Account: Current account  
Name of the Bank: State Bank of India  
Branch: SVRCET Branch, SVNIT Campus, Surat

**Note:** Please mention 'BTIEA-2024' in the description/remark during payment and attach payment proof while registering through Google Form.

After Submission of fees the registration can be done using the following link:

<https://forms.gle/k8zPg4JuZ6HNdfpK8>

Details of ONLINE platform will be provided to shortlisted candidates after completion of registration.