

*TEQIP III Sponsored
National Level*
**ONLINE SHORT TERM TRAINING
PROGRAM**

ON

**Trends in Mechanical
Design and Development**

December 14 - 18, 2020

Coordinators

**Dr. Sandeep Soni
Dr. Sumit Khare
Dr. Rohit Tamrakar**



Organized by

**Mechanical Engineering Department
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

One week short term training program “Trends in Mechanical Design and Development” is scheduled to be held during December, 14 - 18, 2020. The aim of the program provide a platform in which participants get knowledge about the basics of Mechanical Design & 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, 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 mechanical design its industrial applications from national academic institutes, research laboratories, and relevant industries This workshop involves invited lectures by distinguished experts from NIT’s, IIT’s, research organizations and reputed industries in the field of mechanical components design.

Topics to be Covered

- Fundamentals of Mechanical Design
- Design of Journal Bearings
- Design & Analysis of Mechanical Components
- Utility of Finite Element Method in Mechanical Design
- Vibration based Condition Monitoring of Industrial Machines
- Rolling Element Bearing Design and Analysis
- Failure Analysis in Design
- Innovations through Smart Material in Mechanical Design
- Industrial Design Process
- 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 50, 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. 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

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

Chairman

Prof. Shailendra Kumar
Head, Mechanical Engineering Department,
SVNIT, Surat

Coordinators

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Important Dates

Last date of receipt of application **10/12/2020**

Notification of confirmation (By Email) **12/12/2020**

Registration Fee & Bank Details

Registration Fee:
Rs. 300/- for student,
Rs. 600/- for faculty and
Rs. 5000/- for person from industry

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

“Director SVNIT TEQIP IRG”
A/C No: **0277101028663**,
Bankk: **Canara Bank, Nanpura Br., Surat**
IFSC: **CNRB0000277**

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

<https://forms.gle/ecgpprUkCqfWg79AA>

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