Important Instructions

No registration fees for any participants for this STTP. Accommodation will be provided on prior request to faculty/research scholar/student members from AICTE approved institutes. The travelling expenditure will be reimbursed to the outstation participants as per AICTE guidelines. Participants should submit copy of the ticket during registration along with the photocopy of ID card. The organizing committee’s decision will be final for selection of participants and approvals. Participants should remain present for all the sessions of the STTP to be eligible to receive the certificate, TA and accommodation claims.

All the terms and conditions of the participations and approvals will be governed by AICTE and institute norms.

Last date for receiving application: 10th March 2020
Information of the selection: 12th March 2020
Scanned copy of properly filled registration form to be submitted to

Prof. S. R. Yevale
Contact No.-9834132418 Email:- swapnil.yevale@vit.edu

Prof. G. D. Pandit
Contact No.-9503469919 Email:- girish.pandit@vit.edu

Organizing Committee

- Dr. S. R. Bahulikar
- Dr. S. Pavithran
- Dr. M. K. Nalawade
- Dr. M. V. Walse
- Dr. U. S. Chavan
- Dr. J. P. Shete
- Dr. D. B. Hulwan
- Dr. S. P. Chippa
- Prof. G. D. Korwar
- Dr. S. S. Shinde
- Prof. M. R. Khodke
- Prof. S. P. Komble
- Prof. S. D. Chougule
- Prof. A. R. Mujumdar
- Dr. L. D. Mangate
- Dr. N. S. Kulkarni
- Prof. R. K. Bhagat
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- Prof. S. R. Padalkar
- Prof. H. K. Gaikwad
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- Prof. P. D. Khaire
- Prof. G. D. Pandit
- Prof. S. R. Yevale
- Prof. R. G. Deokar

Vishwakarma Institute of Technology
(An Autonomous Institute Affiliated to Savitribai Phule Pune University)

Department of Mechanical Engineering
AICTE Sponsored
Short Term Training Program (STTP) on
Advanced Measurement Techniques (AMT)
16th to 21st March 2020
Co-ordinator
Dr. Shrinivas P. Chippa
Dr. Laxmikant D. Mangate

Convener
Dr. Mangesh B. Chaudhari

Organized by
Mechanical Engineering Department
Vishwakarma Institute of Technology
666, Upper Indira Nagar, Bibwewadi, Pune, Maharashtra, India, 411037.
www.vit.edu
About The Course

This STTP aims at studying different measurement and data interpretation techniques required for a variety of mechanical applications. Considering the vast advancement and high scope of research in measurement techniques in the field of mechanical engineering, the department has organized one-week STTP program on ADVANCED MEASUREMENT TECHNIQUES sponsored by AICTE. The sessions contain the measurement techniques in microfluidics, optical interferometry, vibration and acoustics, tribology testing, additive manufacturing and vibration measurement instruments. It combines theoretical sessions and hands-on measurement exercises.

Speaker

Dr. Dhanesh N. Manik  
IIT Bombay
Dr. Amit Agrawal  
IIT Bombay
Dr. Atul Srivastava  
IIT Bombay
Dr. Anirban C. Mitra  
MESCOE, Pune
Experts,  
Renishaw, Pune
Dr. Debuddat Patro  
Ducom Instruments
Mr. Ganesh Kamble  
Jost’s Engineering Ltd.
Mr. Sunil Chore  
IndiaSoft Technologies
Dr. Prasanna Bhat  
ARAI, Pune
Dr. Laxmikant Dhamande  
Amrutwahini COE, Sangamner

Advisory Committee

Dr. D. N. Malkhede (Adviser, AICTE)
Dr. D. N. Manik (IIT Bombay)
Dr. A. Agrawal (IIT Bombay)
Dr. A. Srivastava (IIT Bombay)
Dr. S.S. Pardeshi (BOS Chairman SPPU)
Dr. G. G. Dongre (VIT Pune)

Course Content

Micro fluidics and Turbulent flows
Measurement techniques such as PIV, hot wire anemometry and thermal imaging techniques

Interferometers and interferometric techniques
Optical techniques for whole field measurements, Optical tomography, Crystal Growth, Biomedical applications of lasers

Vibrations and Acoustics
Advanced measurements in noise and vibrations along with NI instruments LAB View, Fault identification

Additive Manufacturing
Measurement techniques related to 3D printing.

Measurement techniques in Industrial Fluid Power
Advanced measurement techniques related to 3D printing.

Tribology
Advanced measurement techniques related to friction and wear measurement under dry and lubricated environmental conditions.

Emission Measurements
Modifications required while converting BSIV to BSVI emission norms and related measurement techniques.

Fluid Mechanics and Structural testing
Flow diagnosis with optical measurement techniques and measurement techniques for structural testing.

In addition, industrial visit will be organized during the STTP.