

Chief Patron:

Dr. Karisiddappa

Hon'ble Vice Chancellor, VTU, Belagavi

Patrons:

Dr. Satish Annigeri

Registrar (I/c) / Registrar (Evaluation)
VTU, Belagavi - 590018

Mrs. M A Sapna

Finance Officer, VTU, Belagavi

Dr. K Manjunatha

Regional Director, Mysore Region, VTU
& PG Coordinator, VTU CPGS, Mysuru

Organizing Chair:

Dr. R. Suresh

Professor & Chairman
Department of IAE, VTU CPGS, Mysuru

Programme Coordinator:

Dr. C. Mallikarjuna

Associate Professor
Department of IAE, VTU CPGS, Mysuru

Coordinators:

Mr. Annappa A R

Assistant Professor
Department of IAE, VTU CPGS, Mysuru

Mr. Vinodkumar M S

Assistant Professor
Department of IAE, VTU CPGS, Mysuru

About the University

Visvesvaraya Technological University (VTU) is one of the largest Technological Universities in India with 20 years of Tradition of excellence in Engineering & Technical Education, Research and Innovations. It came into existence in the year 1998 to cater the needs of Indian industries for trained technical manpower with practical experience and sound theoretical knowledge. University has very successfully achieved the tremendous task of bringing various colleges affiliated earlier to different Universities, with different syllabi, different procedures and different traditions under one umbrella. The university having 218 affiliated colleges, 1 constituent college and 17 Autonomous colleges with undergraduate courses in 35 disciplines, PG program in 94 disciplines and Ph.D & M.sc(Engg.) with research programs in 592 departments, over 4 lakh Engineering Students study in the various institutes affiliated to the University. The University has 13 Quality Improvement Programme (QIP) centers in various affiliated colleges and 16 extension centers for offering PG programs. It has four regional centers across the State of Karnataka in Belagavi, Bengaluru, Kalaburagi and Mysuru respectively. University is comprised of a multi-disciplinary and multi-level institution offering wide ranging programmes in Engineering, Technology and Management.

For Correspondence:

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TEQIP 1.3 Sponsored
Two Day Workshop on
“FEM & Experimental Vibration Techniques”

11th & 12th May 2019



In Association with

**Visvesvaraya Technological University,
Belagavi, Karnataka**

Aryabhata Knowledge University,
Patna, Bihar

Biju Patnaik University of Technology,
Rourkela, Odisha

Organized by:

Department of Industrial Automation Engineering
VTU Centre for Post Graduate Studies
Hanchya Sathagalli Layout, Outer Ring Road
Mysuru 570029



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Two Day Workshop on

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REGISTRATION FORM

Name : _____
Designation : _____
Department : _____
Institute : _____
Qualification : _____
Address : _____

Email ID : _____
Phone : _____

Declaration by the Candidate

If selected, I am herewith declaring that, I follow the rules and regulations of the workshop and shall attend all the sessions.

Signature of the Applicant

Signature of Head of the Dept./ Institute

Accommodation Required: Yes / No

Expected Date & time of arrival:

Expected Date & time of departure:

*(Accommodation will be provided in VTU CPGS Mysuru
Guest house/Hostel)*

About the VTU CPGS Mysuru

VTU CPGS, Mysuru has started in the academic year 2011-12 in the Regional Center of VTU Mysore Region with good campus environment. This centre is imparting quality education and facilitating the smooth running of education. Currently, Five PG Courses in Technology viz., Thermal Power Engineering, Industrial Automation Engineering, Structural Engineering Computer Science & Engg, Digital Electronics & Communication Systems; Master in Computer Applications and Management course MBA with specialization in HR, Finance and Marketing are available for the student fraternity. The PG center also has Center of Competence of Bosch in Pneumatics and Hydraulics Engg and E-Learning Centre for the benefits of Students studying in the Centre.

About Industrial Automation Engg. Department

The Department of Industrial Automation Engineering was started in the year 2010-11 with an intake of 25. The Department has highly qualified Teaching Staff and laboratory facilities. The Department offers M.Tech. Program in Industrial Automation Engineering and Ph.D. program in Mechanical Engineering discipline.

About the Workshop

This workshop is being conducted to facilitate the faculty of VTU affiliated engineering colleges and for UG/PG Students of VTU to understand the course contents and to get a brief overview about FEM & Experimental Vibration Techniques. This workshop is conducted by WINSUN GLOBAL TECH experts.

Topics to be covered

- Automation Based on Inspection Techniques
- Basics of Digital Signal Processing - Fourier analysis, Sampling theory, Frequency domain windowing, FFT

- Basics of Measurements - Harmonic motion, Linear system relationships, Mathematical relationships, Frequency Response Function & coherence, Input, output & cross power, Time domain measurements, sensors for mechanical vibration measurements
- Introduction to Modal Analysis - Modal definitions, visualization of vibration, Lumped, continuous & finite element models, Normal mode vs. transfer function method, Modal parameters
- Excitation Techniques - Impact excitation method, Shaker excitation method, Acoustic excitation method, Excitation signal types
- Single Degree of Freedom Systems - Characteristic equation, Transfer function Derivation, Transfer function on the S-plane, Transfer function in partial fraction form, Mass, stiffness and damping sensitivity
- Modal Test Procedure and quality assessment - Test setup & fixturing, Computer model (display), Measurement procedures, Parameter estimation & animation
- Modal Theory - SDOF modal testing model, MDOF modal testing model
- Parameter Estimation Techniques- SDOF & MDOF curve fitting methods, Local & Global curve fitting methods
- Hands On Laboratory Exercises - Excitation techniques laboratory, Measurements laboratory, Curve fitting laboratory, Modal test of a Beam, Plate and Automobile model

Eligibility:

Faculty & Research Scholars from Mechanical Engg., Civil Engg., Electronics & Communication Engg., Instrumentation Engg., Computer Science Engg., Information Science Engg., Electrical Engg. can participate in this workshop.

The number of participants is limited and selection will be done on a first come first serve basis.

No Registration Fee

Send the scanned registration form through email to cmvtumysore@gmail.com , on or before 10-05-2019.

Submit Signed copy of Registration form on 11-05-2019.