

AICTE Sponsored One-Week Online Short-Term Training Program (STTP)

“NOISE, VIBRATION & SHOCK – MEASUREMENT AND ANALYSIS”

Schedule of the STTP

This STTP will be conducted in three phases during Nov – Dec 2020

Phase 1: 23 – 28 Nov 2020

(Last date for registration: 16 Nov 2020)

Phase 2: 07 – 12 Dec 2020

(Last date for registration: 30 Nov 2020)

Phase 3: 14 – 19 Dec 2020

(Last date for registration: 07 Dec 2020)

Two sessions per day:

10.30 a.m. – 12.30 p.m. and 2.00 p.m. – 4.00 p.m.

Participants may register for the STTP by using the registration Link provided. The registration will be confirmed in four days after the last date of registration.

RV College of Engineering

R.V. College of Engineering (RVCE) established in 1963 is one of the earliest self-financing engineering colleges in the country. The institution is run by Rashtreeya Sikshana Samithi Trust (RSST). RVCE is an Autonomous College. Currently, the institution offers 12 Bachelor, 17 Master Programs and all the departments have Research centers, affiliated to Visvesvaraya Technological University (VTU), Belagavi. The institution has set itself a Vision

“Leadership in Quality Technical Education, Interdisciplinary Research & Innovation, With a Focus on Sustainable and Inclusive Technology”. Recent awards and achievements include “Engineering College of the Year-2019” by the Higher Education Review Magazine, Ranked 70th in the Country by National Institutional Ranking Framework (NIRF), Ranked 6th among the top 10 of 100 Pvt. Engineering Colleges in the Country by Education World Magazine. The institution has been accredited by NAAC. All the UG programs and eligible PG programs have been accredited multiple times by NBA. The College currently has student strength of about 5600, faculty strength of more than 350, Technical & Administrative Staff of 230 and about 250 Research Scholars are pursuing Ph.D.

Mechanical Engg. Department

The Department of Mechanical Engineering was established in the year 1963. The department has well qualified; passionate and dedicated staff. Most of the faculty are engaged in research and development work. The department has intake of 120 (UG), 72 (PG-PDM, MMD,CIM) students. R&D was established in 1986 offers M.Sc. (Engg), Integrated Ph.D under VTU, Belagavi, and Ph.D. programmes under VTU, Belagavi, Mangalore University, and various other Universities. The department has Centre of Excellence in Hydraulics & Pneumatics and providing Advanced Diploma in Automotive Mechatronics (ADAM) in collaboration with Bosch-Rexroth and Mercedes-Benz respectively. The department is engaged in sponsored research, consultancy, testing and characterization majorly in the areas of experimental, numerical modal analysis of hybrid/nano composites, sandwich structures, advanced materials development, processing and design, Thin film coating and characterization, etc.

About the STTP

This STTP is aimed at providing theoretical and practical skills on Noise, Vibration and Shock. The STTP focuses on the technologies related to measurement of noise, vibration and shock, numerical tools and their features and the analytical models governing noise and vibration. The STTP features presentations and demonstrations by experts from reputed and practicing organizations.

Speakers of the STTP

Eminent speakers from Research Organizations (NAL, NSTL etc.), Academic Institutions (IISc, IIT, NIT, other Universities, etc.) and Industries (DEWESoft, Robert-Bosch, GE Alstom, BAIL, EnviroSense Tech, NV Dynamics, etc.) and consultants.

Objectives of the STTP

The following are the objectives of the STTP:

- To impart theoretical background of Noise, Vibrations and Shock, their importance, standards, measurement and analysis
- To impart practical (Experimental) aspects of measurement of Noise, Vibration and Shock, latest technologies through demonstration
- To impart numerical skills related to modeling and analysis of noise, vibration and shock based on case studies and validation of numerical results.

Major Topics of the STTP

- ❖ Vibration Engineering
- ❖ Acoustics & Noise
- ❖ Fault Diagnosis
- ❖ Structural Vibrations
- ❖ Fatigue related issues
- ❖ Modal Analysis
- ❖ Shock waves & its applications
- ❖ Rotor Dynamics
- ❖ Active Vibration Control
- ❖ Measuring Devices / Instruments
- ❖ Vibro-Acoustics, Harshness
- ❖ In-flight vibration measurements
- ❖ Modeling of vibration systems viz composite structures, sandwich structures, etc.
- ❖ NV&S -Industrial applications

Who can Register for STTP

Faculty Members, Research Scholars, PG Students of Mechanical, Aerospace, Automobile Engineering, Design Engineers, R&D members, Technicians, Consultants, and others.

No Registration Fee

No registration fees, however, attendance will be monitored and e-Certificate will be awarded based on minimum of 85% attendance and participation as per **AICTE** guidelines.

Online Platform

Link(s) for the online presentation will be shared to all selected participants.

Last Date for Registration (Phase 1) 16-11-2020

Registration link / QR Code:

<https://forms.gle/8n5Kp9j2RJdUaNQq5>



Patrons

Dr. M.K .Panduranga Setty, President, RSST
Sri. A.V.S Murthy, Hon. Secretary, RSST
Sri. D.P. Nagaraj, Hon. Joint Secretary, RSST

Advisory Committee

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Dr. S Seetharamu, Former Director, CPRI, B'lore.
Former Adjunct Professor (AICTE), Professor, Dept. of ME, RVCE

Chief Coordinator


Dr. V L Jagannatha Guptha, Assistant Professor
Dept. of ME, RVCE, Mob: 9243447122

Coordinators

Dr. N V Nanjundaradhya, Professor,
Dr. P V Srihari, Associate Professor,
Dr. P R Venkatesh, Associate Professor,
Dr. J R Nataraj, Associate Professor,
Dr. Nagesh S, Assistant Professor,
Faculty Members of Dept. of ME, RVCE

For Correspondence >

jagannathagvl@rvce.edu.in	9243447122
rameshssharm@rvce.edu.in	9880702543
nanjundaradhya@rvce.edu.in	9448180450
sriharipv@rvce.edu.in	9449588790
venkateshpr@rvce.edu.in	9620117755
natarajr@rvce.edu.in	9901150505
nageshs@rvce.edu.in	9008229931

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on
“Noise, Vibration and Shock – Measurement & Analysis” (Phase-1)

23 – 28, Nov 2020



Organized by

**Dept. of Mechanical Engineering
RV College of Engineering[®]
Bengaluru - 560 059
Karnataka**