

**Our Vision:** To impart technical education of the highest standards, producing technically competent confident and socially responsible engineers.

### About the College

Maturi Venkata Subba Rao Engineering College, affiliated to Osmania University, is established in the year 1981. It is one of the earliest of the engineering colleges in the erstwhile Andhra Pradesh that pioneered engineering education in private sector. The college is founded by Matrusri Education Society (MES), whose members distinguished themselves as Engineers, Doctors, Lawyers, Businessmen and Administrators.

The college offers B.E programs in Automobile, Civil, CSE, ECE, EEE, IT and Mechanical Engineering, M.E./M.Tech. programmes in CSE, VLSI & ES and CAD/CAM, besides MBA. The college has over 240 well qualified faculty and 170 supporting staff. There is separate R&D cell and EDC cell to encourage faculty and students with their creative ideas. MVSR Engineering College is an institutional member of “The Institution of Engineers India (IEI)” and an ISO 9001:2015 certified institution.

### Department of Mechanical Engineering

Department of Mechanical Engineering established in 1981, offers B.E. program in Mechanical Engineering, with an intake of 120, and M.E. with specialisation in CAD/CAM with 18 intake. The department has 29 well qualified and experienced faculty, five of whom possess Ph.D. The Department has well equipped laboratories with research facilities, including Dynamics of Machines, CAD, CAM and CAE Labs. It is actively involved in many research and consultancy projects in collaboration with leading R&D organizations like DRDO, BHEL, and NRSC. The department is associated with SAE, ISTE and Renewable Energy club. Students of the department have successfully fabricated All-Terrain vehicles and participated in SAE-BAJA, SUPRA and EFFICYCLE for many years. The B.E program has been accredited by NBA in 2002, 2007, 2013 and 2018.

### Department of Automobile Engineering

B.E. (Automobile Engineering) was started in 2009, and MVSR Engineering College is first to start the program in the state. Over the years, the department has developed excellent laboratory facilities with state-of-the-art equipment. The program has been attracting good students from inception, and current intake is 60. Students of the program are encouraged to participate in various competitions, such as SAE-BAJA, EFFICYCLE,

SUPRA, and GOKART. The students are motivated to develop new concepts, and also to build working systems related to automobiles towards their final year projects.

### About the Workshop

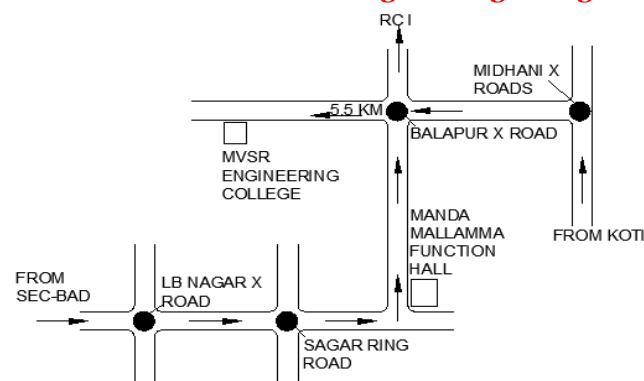
Vibrations is considered to be one of the most fundamental applied subjects in engineering discipline. Occurrence of vibrations and vibration-induced noise are almost inevitable in our real life. All Mechanical systems/machines consists of structural components which have distributed mass and elasticity. Most of such systems have reciprocating or rotating unbalanced parts which induce vibrations and noise. Hence, the study of vibrations is essential in the design process of machine components. Vibrations in most applications cause increased stress, energy losses, wear, bearing and fatigue loads and the noise also leads to human discomfort. Hence understanding of the various aspects related to vibrations is very important for engineers to enable them to develop durable quality products. Significant amount of applied technology pertaining to vibrations has emerged over the last decades.

### Objectives of the Workshop

This workshop aims to provide knowledge on:

- Fundamental physics and modelling of vibrating systems.
- Core content of vibration engineering generally applied to mechanical systems.
- State-of-the-art technology in the domain of vibration of typical mechanical applications.
- Advanced testing methods.
- Practical use of vibration equipment and related software tools.

### Route Direction to MVSR Engineering College



### Tentative Schedule

<b>Day1: Friday – 4<sup>th</sup> January, 2019</b>	
9:30 am - 10:00 am	Registration
10:30 am	<b>Inaugural Function</b>
11:15 am - 12:15 pm	<i>Keynote address: Vibrations and Design Considerations</i> - Prof. N.Siva Prasad, Former Director (IITM), Pro-Vice-Chancellor, GITAM University, Hyd.
12:15 am - 01:15 pm	<i>Model Testing on Aerospace Structures</i> , Dr.K. Kishore Kumar, Sc-G, DRDL, Hyd.
02:15 pm - 04:15 pm	<i>Basics of Single &amp; Multi-d.o.f Systems</i> , Dr.P.A. Sastry, Prof., MED, MVSREC, Hyd.
<b>Day2: Saturday – 5<sup>th</sup> January, 2019</b>	
9:30 am - 11:00 am	<i>Structural Dynamic Analysis of Airborne Applications</i> , Mr.P. Anil Kumar, Sc-F, DRDL, Hyd.
11:15 am - 12:45 pm	<i>Mode Shapes and Modal Analysis</i> , Dr.Bangaru Babu, Prof. & Head, MED, NIT Warangal.
1:45 am - 4:15 pm	<i>Practical Session</i> , Dr.P.A. Sastry, Prof., Mr.A. Syam Prasad & Mr.T. Murali Mohan Raju, Asst.Prof., MVSREC, Hyd.
<b>Day3: Sunday – 6<sup>th</sup> January, 2019</b>	
9:30 am - 4:15 pm	<b>Industrial Visit</b>
<b>Day4: Monday – 7<sup>th</sup> January, 2019</b>	
9:30 am - 11:00 am	<i>Non-linear Vibrations</i> , Dr.J.V.Subrahmanyam, Prof. (Rtd.), MED, Osmania University, Hyd.
11:15 am - 12:45 pm	<i>Finite Element Techniques in Vibrations</i> , Dr.M. Madhavi, Prof., MED, MVSREC, Hyd.
1:45 pm - 4:15 pm	<i>Practical Session</i> , Dr.M.Madhavi, Prof., & Mr.A. Syam prasad, & Mr.T. Murali Mohan Raju, Asst.Prof., MVSREC, Hyd.
<b>Day5: Tuesday – 8<sup>th</sup> January, 2019</b>	
9:30 am - 12:45 pm	<i>Automotive Vibration, Noise and Harshness</i> , Mr.B. Murali, M.D., HERTZTECH Solutions Pvt. Ltd., Chennai.
1:45 pm - 4:15 pm	<i>Demonstration on Vibration Testing Equipment</i> , Mr.B. Murali, M.D., HERTZTECH Solutions Pvt. Ltd., Chennai.
<b>Day6: Wednesday – 9<sup>th</sup> January, 2019</b>	
9:30 am - 1:00 pm	<i>Ruggedization of Avionic Systems for Environmental Conditions</i> , Mr. Jagadeeshan Krishnamoorthy, OS& Scientist (H) (Rtd.), RCI, Hyd.
2:00 pm - 4:00 pm	<b>Valedictory Function</b>

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**One-Week National Workshop on  
Vibrations in Mechanical Systems  
(VMS 2019)  
4<sup>th</sup> – 9<sup>th</sup> January 2019  
REGISTRATION FORM**

Name :  
Designation :  
Institution :  
Address :  
  
E-Mail :  
Mobile No. :  
Qualifications :  
Experience :  
IE(I) Membership No. :

**Declaration**

The information provided is true to the best of my knowledge. If selected, I plan to attend the course for the entire duration, and I agree to abide by the rules and regulations of the workshop.

Place:

Date:

Signature of the Applicant

**Sponsorship Certificate**

Dr./Mr./Ms. .... is an employee of our Institute /Organization and is hereby sponsored to participate in the One-Week National Workshop on “**Vibrations in Mechanical Systems**” during 4<sup>th</sup> to 9<sup>th</sup> January 2019.

Place:

Date:

Signature of Head of the Institution  
(with seal)

**Chief Patron**

**Dr. K. P. Srinivas Rao**  
Chairman, Matrusri Education Society.

**Patron**

**Dr. G. Kanaka Durga**  
Principal, MVSR Engineering College.

**Convenors**

**Dr. J. Kandasamy, Prof. & Head, MED.**  
**Dr. G. Venkatasubbaiah, Prof. & Head, AED.**

**Coordinator**

**Dr. M. Madhavi, Professor, MED.**

**Co-Coordinator**

**A. Syam Prasad, Asst. Professor, MED.**  
**T. Murali Mohan Raju, Asst. Professor, AED.**

**Who can Attend**

Faculty members, Research scholars from universities and affiliated colleges, Engineers from Industries and R&D organisations may attend. The number of participants is limited to 40 and the selection is on first come first served basis.

**Last Date of Registration:** 29<sup>th</sup> December, 2018.

**Registration Fee:**

Delegates from Industries : Rs. 1000/-  
Delegates from Academic and R&D : Rs. 600/-  
Delegates with IE(I) Membership & Student delegates : Rs. 500/-

**How to Apply**

The applicants should send their application in the specified format along with DD (in favour of The Principal, MVSREC, Hyderabad, payable at Hyderabad) to reach us on or before 29<sup>th</sup> December 2018. Cash is also accepted for spot registration.

**Note:** No Accommodation and TA will be provided.

**Address for Communication**

The Coordinator,  
Vibrations in Mechanical Systems,  
Department of Mechanical Engineering,  
MVSR Engineering College, Nadargul, Balapur  
Mandal, Hyderabad-501510.

Mobile: +91-9849858948, +91-8019622303

Email: [vibrationworkshop2019@gmail.com](mailto:vibrationworkshop2019@gmail.com)

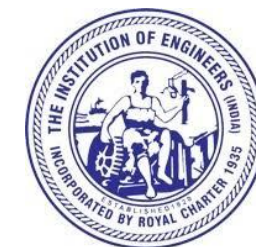
College bus facility is available from all corners of the twin cities to MVSR Engineering College.

For details please visit [www.mvsrec.edu.in](http://www.mvsrec.edu.in)

**One-Week National Workshop  
on  
Vibrations in Mechanical  
Systems  
(VMS 2019)**

**4<sup>th</sup> – 9<sup>th</sup> January 2019**

**In Association with  
The Institution of Engineers (India)**



**Jointly Organised by  
Departments of  
Mechanical Engineering  
&  
Automobile Engineering**

**M.V.S.R Engineering College**  
(Sponsored by Matrusri Education Society, Estd. 1980)  
Affiliated to Osmania University, Recognised by AICTE.  
Nadargul, Balapur Mandal, Hyderabad-501510