



Vidya Pratishthan's

**Kamalnayan Bajaj Institute of Engineering & Technology, Baramati**

**Department of Mechanical Engineering**

**Guest lecture report on topic**

**“Modeling and Control of Vibration in Mechanical Systems”**

- A guest lecture has been arranged on the topic of "**Modeling and Control of Vibration in Mechanical Systems**" dated on 17/09/2025 from 9.30 to 11.30 am. The session is arranged for TY B.Tech and BE Mechanical students. Total 81 students from third year and 44 students from final year have attended the session. The session is conducted by Dr. Sushilkumar Patil from SVPM college of engineering , Malegaon.
- The objectives of expert session were:
  1. To understand different sources of vibration.
  2. To learn the fundamental properties governing vibration.
  3. To represent real system as idealized models (spring-mass- damper) for mathematical analysis.
  4. To study and Select suitable vibration reduction technique.
- The expected outcomes of the session are :
  1. Analyze the cause of vibration in real life application
  2. Define basic vibration parameters for simple system
  3. Develop Model of Vibratory System
  4. Select suitable vibration reduction technique
- Following are the brief topics covered during the session:
  1. Vibration in every day life.
  2. Why to study Vibration?
  3. Causes of Vibrations.
  4. Parameters of vibratory system.
  5. Modeling of Vibratory system.
  6. Methods to eliminate or reduce Vibrations.

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