



Principles of Vibration Control

ABOUT THE COURSE:

Vibration is undesirable in most engineering systems. The adverse effects of vibration include fatigue failure, severe damages due to resonance, malfunctioning of sensitive instruments/systems, loss of accuracy of a work-piece due to vibration of machine tools, etc. Hence, this course will give a brief overview of the various strategies to control such vibrations in systems and principle behind them.

COURSE LAYOUT:

- Week 1 : Introduction to Vibration control
- Week 2 : Dynamic Properties and Selection of Materials
- Week 3 : Dynamic Vibration Absorbers
- Week 4 : Principles of Active Vibration Control