

Dynamics & Analysis of Structures Lab

List of Experiments:

Section - A:

Dynamics Lab:

- 1) To Study the damped torsional oscillations and determine the damping coefficient.
- 2) To study the Un-damped free vibration of the equivalent spring mass system.
- 3) To Study the forced vibration equivalent of the beam for different damping.
- 4) Determination of the magnitude of the gyroscopic couple, angular velocity of precession and representation of vectors.
- 5) Static and Dynamic Balancing apparatus – Rotating Masses.

Section - B:

ANALYSIS OF STRUCTURES USING FEA PACKAGES

- 1) Static Analysis.
- 2) Modal Analysis.
- 3) Harmonic Analysis.
- 4) Spectrum Analysis.
- 5) Buckling Analysis.
- 6) Analysis of Composites.
- 7) Fracture mechanism.
- 8) Transient Analysis.