

**Mechanical Engineering Department**  
**Lab Manual**  
**IV- Semester**

**Subject: Theory of Machine – II**

**List of Experiment:**

1. Study of Gyroscopic effect and determination of gyroscopic couple.
2. Determination of jump speed of cam-follower system.
3. Dynamic balancing of the rotating mass system.
4. To determine radius of Gyration "K" of given pendulum.
5. To study the free vibration and to determine the natural frequency of vibration of Tow-Rotor system.
6. To study the torsional vibration and to determine the natural frequency vibration of single rotor system.
7. Study of longitudinal vibration and to determine the frequency of vibration.
8. To study the damped torsional vibration and determine the damping coefficient.
9. To verify the relation  $T = 2\pi \sqrt{l/g}$  for a simple pendulum.
10. Determination of whirling speed of shafts.

# Mechanical Engineering Department Lab Manual

**Marco Cascella**



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