III Year II Semester L T P C
Code: 20ME6110 0 0 3 1.5

THEORY OF MACHINES LAB

- 1. To determine whirling speed of shaft theoretically and experimentally.
- 2. To determine the position of sleeve against controlling force and speed of a Hartnell governor and to plot the characteristic curve of radius of rotation.
- 3. To analyse the motion of a motorized gyroscope when the couple is applied along its spin axis.
- 4. To determine the frequency of undamped free vibration of an equivalent spring mass system.
- 5. To determine the frequency of damped force vibration of a spring mass system
- 6. To study the static and dynamic balancing using rigid blocks.
- 7. To find the moment of inertia of a flywheel
- 8. To plot follower displacement vs cam rotation for various Cam Follower systems.
- 9. To plot slider displacement, velocity and acceleration against crank rotation for single slider crank mechanism/Four bar mechanism
- 10. To find coefficient of friction between belt and pulley.
- 11. To study simple and compound screw jack and determine the mechanical advantage, velocity ratio and efficiency
- 12. To study various types of gears- Spur, Helical, Worm and Bevel Gears