


KINEMATICS AND DYNAMICS LABORATORY

The lab also aims to educate students on various governors, gyroscope, and vibration apparatus.

The facilities available in the laboratory

- Motorized Gyroscope effect of gyroscope for different motions
- Universal Vibration test rig to find out frequency and time period of various types vibration systems like longitudinal and torsion.
- CAM Analysis Apparatus to find out displacement of follower at various speeds
- Whirling of Shaft Demonstrator to find out critical speed of various diameter of shafts
- Universal Governor Apparatus to find out the height of the sleeve at various speeds.
- Journal bearing to find out pressure distribution at various loading condition
- Balancing of rotating masses to find out static and dynamic balanced various rotating shafts.

S.No	Name of major equipments	Photo
1.	Universal Vibration test rig	


S.No	Name of major equipments	Photo
2.	CAM Analysis Apparatus with Digital Tachometer.	

S.No	Name of major equipments	Photo
3.	Whirling of Shaft Demonstrator	

S.No	Name of major equipments	Photo
4.	Universal Governor Apparatus	

S.No	Name of major equipments	Photo
5.	Motorized Gyroscope	

S.No	Name of major equipments	Photo
6.	Journal Bearing	 A photograph of a laboratory setup for a journal bearing experiment. The setup includes a motor, a shaft with a bearing, and a load stack, all mounted on a frame. Two electronic control units are visible on stands.

S.No	Name of major equipments	Photo
7.	Balancing of rotating masses	 A photograph of a laboratory setup for balancing rotating masses. The setup includes a motor, a rotating shaft with a pulley, and a frame with a horizontal bar and weights, all mounted on a stand. A power supply unit is visible in the foreground.

