Department of Mechanical Engineering

Theory of Machine Laboratory

Objective :-

 To get practical knowledge of various types mechanisms like Governor, Gyroscope, Balancing etc. Also this practical helps to handle some instruments so they get practical knowledge working principle of various mechanisms.



List of experiments:

- Determination of Rope brake dynamometer efficiency by applying constant & various speed
- Determination of Transmission efficiency of speed reducer Gear box by applying constant speed.
- To analyze the motion of a motorized Gyroscope when the couple is applying along its spying axis.
- To determine the position of sleeve against controlling force and speed of a watt governor& to plot the characteristics curve of radius of rotations.
- To determine the position of sleeve against controlling force and speed of a Porter Governor & to plot the characteristics curve of radius of rotations.

- To determine the position of sleeve against controlling force and speed of a Hartnell Governor & to plot the characteristics curve of radius of rotations.
- To determine the position of sleeve against controlling force and speed of a proell governor & to plot the characteristics curve of radius of rotations.

List of Equipment:

- > Rope Brake Dynamometer
- Power Transmission type Dynamometer
- > Watt Governor
- Porter Governor
- ➢ Hartnell Governor
- Proell governor
- Gyroscope model