



DEPARTMENT OF MECHANICAL ENGINEERING

17MECC86-DYNAMICS AND METROLOGY LAB (UG)

LIST OF EXPERIMENTS

1. To perform an experiment on Watt and Porter Governor to prepare performance Characteristic curves and to find stability and sensitivity
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 and determine gyroscopic couple
4. Determine the Moment of Inertia by compound pendulum and tri-filar suspension.
5. To determine the frequency of undamped free vibration and damped forced vibration of an equivalent spring mass system.
6. To determine whirling speed of shaft theoretically and experimentally.
7. Angular Measurements using Bevel Protector and Sine Bar
8. Flow Measurement using a Rotameter
9. Fundamental dimension measurement of a gear using a contour projector.
10. Measurement of Displacement using Linear Variable Differential Transducer
11. Measurement of speed of Motor using Stroboscope
12. Measurement of cutting forces using Lathe Tool Dynamometer

(Prof. L.PRABHU)

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