

KME 653 Theory of Machines Lab
LIST OF EXPERIMENTS

1. To study various types of kinematics links, pairs, chains & Mechanisms
2. To study Whitworth Quick Return Motion Mechanisms, Reciprocating Engine Mechanism, and Oscillating Engine Mechanism
3. To study of inversions of four bar linkage
4. To study of inversions of single/double slider crank mechanisms
5. To study various types of gear (Helical, cross helical, worm, bevel gear) and gear profile (involute and cycloidal) and condition for interference Helical, cross helical, worm, bevel gear
6. To compute the output velocity in various gear trains
7. To study gyroscopic effects through models
8. To determine gyroscopic couple on Motorized Gyroscope
9. To perform experiment on dead weight type governor to prepare performance characteristic Curves, and to find stability & sensitivity
10. To perform experiment on spring controlled governor to prepare performance characteristic Curves, and to find stability & sensitivity
11. To determine whirling speed of shaft theoretically and experimentally
12. To perform the experiment for static / dynamic balancing
13. To perform experiment on brake
14. To perform experiment on clutch
15. To perform the experiment for static / dynamic balancing.
16. To perform experiment on longitudinal vibration
17. To perform experiment on transverse vibration

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LIST OF EQUIPMENTS

S.No	Equipment Name
1	Cam Apparatus
2	Motorised Gyroscope
3	Coriolis Component of Acceleration Set Up
4	Model of Bevel Gears
5	Model of Herring Bone Gear
6	Model of Oldham's Coupling
7	Model Slider Crank Mechanism
8	Model of Single Stage Helical Gears
9	Model of Gear Mechanism
10	Static and Dynamic Balancing Apparatus
11	Universal Vibration Apparatus
12	Gear Train Apparatus
13	Universal Governor Apparatus
14	Whirling of Shaft Apparatus
15	Epicyclic Gear Train Model
16	Tachometer