LIST OF EXPERIMENTS

1. Two or More Measurements in Metal Cutting Experiment (Example: Shear Angle, Cutting Force, Tool Wear etc.)
2. One or More Exercises in Shaper, Slotter, Planner, Drilling, Milling Machines (Example: Round to Square, Dovetail in shaper, Internal keyway cutting in Slotter, Round to square in Planner, Drilling, reaming and tapping in Drilling machine, Gear Milling and Keyway milling in Milling machine.)
3. Two or More Exercises in Grinding / Abrasive machining (Example: Surface Grinding, Cylindrical Grinding.)
4. Two or More Exercises in Assembly of Machined Components for different fits. (Example: Parts machined using Lathes, Shapers, Drilling, Milling, and Grinding Machines etc.)
5. One or More Exercises in Capstan or Turret Lathes
6. One or More Exercises in Gear Machining (Example: Gear Milling, Gear Hobbing etc.)

LIST OF EQUIPMENT

(For a batch of 30 students)

1. Centre Lathes - 2 Nos.
2. Turret and Capstan Lathes - 1 No
3. Horizontal Milling Machine - 1 No
4. Vertical Milling Machine - 1 No
5. Surface Grinding Machine - 1 No.
7. Shaper - 2 Nos.
8. Slotter - 1 No.
9. Planner - 1 No.
11. Tool Dynamometer - 1 No
12. Gear Hobbing Machine - 1 No
13. Tool Makers Microscope - 1 No
ALL GEARED
LATHE
SURFACE GRINDING MACHINE
SLOTTING MACHINE
RADIAL DRILLING MACHINE
CYLINDRICAL GRINDING MACHINE
VERTICAL MILLING MACHINE
HORIZONTAL MILLING MACHINE
SHAPING MACHINE
PLANNING
MACHINE
TURRET LATHE WITH AUTOMATIC BAR FEED MECHANISM
CAPSTAN
LATHE
TOOL GRINDING MACHINE