

MACHINE TOOLS LABORATORY

OBJECTIVES:

- To Study working system and important parts and functions of the Machines like Lathe, Drilling, Milling, shaping and Slotting Machine.
- To Study material, geometry of tools used in metal cutting like single point, multi point cutting tools.
- To practice machining operations like plain turning, step turning, taper turning and thread cutting on Lathe Machines.
- Also practice on Machines to perform operations like drilling, grinding, key way cutting, gear cutting. Learn working on Tool and cutter grinding machine and cylindrical grinding machine.

LIST OF EXPERIMENTS:

1. Introduction to general purpose machines like Lathe, Drilling machine, Milling machine, shaping machine and slotting machines.
2. Study of parts of all grinding machines.
3. Study of material geometry of tools used in metal cutting like single point, multi point cutting tools.
4. Plain, step tuning, taper turning and thread cutting on Lathe machines.
5. To perform operations like
 - Drilling
 - Tapping
 - Shaping
 - Slotting
 - Milling
 - Surface grinding.

