MANUFACTURING TECHNOLOGY LABORATORY

SUBJECT CODE: 19ME2021

CO REQUISITE: Manufacturing Technology (18ME2022)

LAB COURSE OBJECTIVES:

1. To explore various special machines.
2. To provide hands on experience on key slotting and gear cutting operations.
3. To instruct the machining operations like surface grinding, tapping and wire-cut EDM.

LAB COURSE OUTCOMES:

After completing the course the student will be able to

1. Perform V-block by using Shaping machine.
2. Operate Milling machines for cutting various shapes.
4. Design spur gear cutting operation using Gear hobbing machine.
5. Perform surface grinding operations.
6. Apply wire-cut EDM for generating profile.
MAJOR EQUIPMENTS

Planer Machine
Gear Hobbing Machine
Gear Hobbing Machine
Shaper Machine (Gear Drive)
Surface Grinding Machine
Milling Machine
Geared Lathe Machine
Radial Drilling Machine
LIST OF EXPERIMENTS:
1. Machining V-block using shaper
2. Machining rectangular block and letter cutting using milling machine
3. Key way cutting using slotting machine
4. Spur gear cutting using gear hobbing machine
5. Surface grinding and tapping
6. Profile cutting using wire-cut Electric discharge machine

ASSOCIATED FACULTY MEMBERS:
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