

MANUFACTURING TECHNOLOGY –II LAB

Name of Lab In-charge: Mr. Sushil Madheshia Name of technical assistant: Mr. Md. Shahid

Course Outcomes: After completion the course, student will be able to

CO Code	COURSE Outcome(CO)
1	Know about the different types of cutting tool.
2	Understand about lathe machine and thread cutting operation.
3	Acquire the knowledge of shaper machine, grinding machine
4	Gain the knowledge of Milling machine operations
5	Do gas welding and arc welding.

List of Equipment:

1. Bench Grinder
2. Lathe – 04
3. Milling – 01
4. Surface Grinder
5. Shaper
6. TIG
7. MIG
8. Arc Welding
9. Gas Welding

List of Experiments:

Sr. No.	As per AKTU	Performed/ Not performed
1	Shear-angle determination (using formula) with tube cutting (for orthogonal) on lathe machine.	
2	Bolt (thread) making on Lathe machine	YES
3	Tool grinding (to provide tool angles) on tool-grinder machine.	YES
4	Gear cutting on Milling machine.	YES
5	Machining a block on shaper machine.	YES
6	Finishing of a surface on surface-grinding machine.	YES
7	Drilling holes on drilling machine and study of twist-drill.	YES
8	Study of different types of tools and its angles & materials.	YES
9	Experiment on tool wear and tool life.	
10	Experiment on jigs/Fixtures and its uses	
11	Gas welding experiment	YES
12	Arc welding experiment	YES
13	Resistance welding experiment.	YES

14	Soldering & Brazing experiment	
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Pictures of Labs: