

MANUFACTURING TECHNOLOGY LAB

Course Code	19ME3552	Year	III	Semester	I
Course Category	Program Core	Branch	ME	Course Type	Practical
Credits	1.5	L-T-P	0 – 0 – 3	Prerequisites	Nil
Continuous Internal Evaluation	25	Semester End Evaluation	50	Total Marks	75

Course Outcomes		Levels
Upon successful completion of the course, the student will be able to:		
CO1	Perform various operations on Lathe machine.	L3
CO2	Perform Drilling, Reaming and Tapping operations using universal radial drilling machine	L3
CO3	Make plain and stepped surfaces using shaper, planner and surface grinder.	L3
CO4	Fabricate spur gear and splined shaft using milling machine and slotter respectively.	L3
CO5	Prepare single point cutting tool using Tool and cutter grinding machine.	L3

Contribution of Course Outcomes towards achievement of Program Outcomes & Strength of correlations (H-High3, M-Medium-2, L- Low-1)														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3								2	1		1	3	1
CO2	3								2	1		1	3	1
CO3	3								2	1		1	3	1
CO4	3								2	1		1	3	1
CO5	3								2	1		1	3	1

Syllabus		
Expt. No.	Content	Mapped COs
1.	Step turning	CO1
2.	Taper turning by swiveling compound rest	
3.	Taper turning by taper turning attachment	
4.	Knurling	
5.	Thread cutting	
6.	Form Turning	
7.	Drilling and Boring	
NON-LATHE		
1.	Drilling, reaming and tapping operations	CO2
2.	Shaping a stepped surface	CO3
3.	Machining of flat surface using Planner	
4.	Surface grinding	CO4
5.	Splined Shaft on slotting machine	
6.	Spur Gear making on a Milling machine	CO5
7.	Grinding of single point cutting tool angles	