

Faculty of Mechanical Engineering
M.E. Manufacturing Engineering
(R 2021) Semester – I

Course Code:MF4111		Course Title: CAD/CAM LAB
Sl.No.	Description of Equipment	Required Numbers (for batch of 25 students)
1	CNC Lathe	1 No
2	CNC Milling	1 No
3	Sensors, Transducers & PLC: Hall-effect sensor, Pressure sensors, Strain gauge, PLC, LVDT, Load cell, Angular potentiometer, Torque, Temperature & Optical Transducers.	Each 1 No for study experiment
4	2D and 3D Modelling Software (Parametric Modelling Software like Solid Works, ProE, CATIA Etc)	30 Users

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Course Code:MF4211		Course Title: Automation and Metal Forming Lab	
Sl.No.	Description of Equipment	Required Numbers (for batch of 25 students)	
1	Universal Tensile Testing Machine with Data Acquisition Software (100 Ton)	1	
2	Hydraulics Press Machine (60 Ton)	1	
3	Water Hammering Setup	1	
4	Compression Testing Machine (40 Ton)	1	
5	Extrusion Setup	1	
6	Cold Rolling Mill (Two High) Setup	1	
7	Compressor with single & double acting cylinder	1	
8	FRL unit, control valves (DCV-5/2,3/2,4/3)	Each 1	
9	Electric & Magnetic reed switches	Each 1	
10	Solenoid switches (4/2,5/2)	Each 1	
11	Automation Studio Simulation Software	1	

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Course Code:MF4212 Course Title:Advanced Manufacturing Processes Lab		
Sl.No.	Description of Equipment	Required Numbers (for batch of 25 students)
1	Lathe Machine with Dynamometer and Infrared Thermometer	1
2	Electric Discharge Machine	1
3	3D Printer	1
4	MATLAB Software	15 Users
5	ANSYS Software	15 Users
6	Robot with pick & place, gripper, colour & shape identification sensor with simulation software	15 Users