

DEPARTMENT OF MECHANICAL ENGINEERING

DETAILS OF THE MACHINE TOOLS LAB

Name of the Laboratory	:	MACHINE TOOLS LAB
Name of the Lab In-charge	:	Dr. Bathina Sreenivasulu
Name of the Lab-Technician In-charge	:	Mr. Nikhil
Area of the Lab	:	347 Sq.mts
Lab Occupancy	:	60
Description of the Lab	:	Machining the given work piece into the required shape using different machine tools.

LIST OF EXPERIMENTS

Step Turning and Chamfering Operation Using Lathe
Taper turning Operation Using Lathe
Right Handing Threading Operation Using Lathe
Eccentric Turning Operation Using Lathe
Knurling Operation Using Lathe
Multiple Operations Using Capstan and Turret Lathe
Spur Gear Manufacturing Using Horizontal Milling Machine
Drilling ,Reaming, Counter Sinking, Tapping Operations Using Radial Drilling Machine
Horizontal Surface Grinder
Cylindrical Grinder
End Milling Operation
Slotting

LIST OF EQUIPMENT

S.NO	Name of the Major Equipment(Above Rs. 50,000)	Quantity
1.	Universal Cylindrical Grinder	1
2.	Horizontal Surface Grinder	1
3.	Universal Horizontal Milling Machine	1
4.	Universal Vertical Milling Machine	1
5.	Tool & Cutter Grinder	1
6.	Slotting Machine	1
7.	Horizontal Shaper	1
8.	Radial Drilling Machine	1
9.	Geared Head Medium Duty Lathe	1
10.	Geared Head Light Duty Lathe	8
11.	Capstan Lathe	1
12.	Metal Cutting Machine	1

S.NO	Name of the Minor Equipment(Below Rs. 50,000)	Quantity
1.	Bench Grinder	1



LATHE MACHINES



SPECIAL MACHINES



UNIVERSAL CYLINDRICAL GRINDER



HORIZONTAL SURFACE GRINDER



HORIZONTAL MILLING MACHINE



END MILLING MACHINE



TOOL AND CUTTER GRINDER



SLOTTING MACHINE



SHAPING MACHINE



RADIALL DRILLING MACHINE



CAPSTAN AND TURRET LATHE



LATHE MACHINE