

Course Number and Name													
BME5L2 - MANUFACTURING TECHNOLOGY LAB-II													
Credits and Contact Hours													
2 & 45													
Course Coordinator's Name													
Mr.V.P.Durai Raj													
Text Books and References													
Lab Manual													
Course Description													
To expose students in understanding various metal cutting operations and commonly used machine tools.													
Prerequisites							Co-requisites						
Manufacturing technology I							Manufacturing technology II						
required, elective, or selected elective (as per Table 5-1)													
Required													
Course Outcomes (COs)													
CO1	Upon completion of this course, the students can able to understand and compare the functions and applications of different metal cutting tools												
CO2	Learn operations in metal cutting processes.												
CO3	To demonstrate the programming in CNC machining												
CO4	Upon completion of this course, the students can able to apply the different metal removing ,finishing and super finishing and for component production												
CO5	Learn various cutting tool operations using CNC machines.												
CO6	Upon completion of this course, the students can able to understand and compare the process												
Student Outcomes (SOs) from Criterion 3 covered by this Course													
COs/SOs	a	b	c	d	e	f	g	h	i	j	k	l	
CO1	H												
CO2		H											
CO3									H				
CO4										L			
CO5				M							L		
CO6							M					L	

List of Topics Covered

LIST OF EXPERIMENTS:

1. Shaper Exercise : Making a square from a round rod
2. Exercise on dovetail cutting
3. Exercise on Plane milling.
4. Exercise on Spur Gear Milling
5. Exercise on Helical Gear Milling
6. Grinding a single point cutting tool in tool and cutter grinder.
7. Slotting and key way cutting in vertical slotting machine.
8. Determination of cutting forces in Milling and drilling using dynamometers