

Course Number and Name													
BME4L2 - MANUFACTURING TECHNOLOGY LAB – I													
Credits and Contact Hours													
2 & 45													
Course Coordinator's Name													
Mr.V.P.Durai Raj													
Text Books and References													
Lab Manual													
Course Description													
To make the students understand the concept of standardization and interchangeability													
To familiarize the students with metallographion structures of different .													
Prerequisites							Co-requisites						
MANUFACTURING TECHNOLOGY							Nil						
required, elective, or selected elective (as per Table 5-1)													
Required													
Course Outcomes (COs)													
CO1		Students will understand lathe and its working											
CO2		Students will get aware about different tools used in manufacturing .											
CO3		Student will understand the concept of tool wear..											
CO4		Learn the use of machineries.											
CO5		Learn the different methods of manufacturing											
CO6		Learn to do force calculations											
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								M			
	CO2											H	L
	CO3									M			
	CO4												L
	CO5												
	CO6					H				M			

List of Topics Covered

LIST OF EXPERIMENTS:

1. Study of Centre, Capstan and Automatic lathes and their accessories.
2. Exercise on Plane turning and Step turning
3. Exercise on taper turning and knurling
4. Exercise on Eccentric turning
5. Exercise on thread cutting and grooving
6. Exercise on drilling and reaming
7. Exercise on drilling and boring
8. Determination of cutting forces in turning using tool dynamometer.
9. Determination of tool wear using tool makers microscope.