	N. T.										
Course Number and I		A 33773 1									
BME3L1 – MACHIN		AWIN	<u>.</u>								
Credits and Contact I	Hours										
3&60	> T										
Course Coordinator's	s Name	2									
Mr.R.Hariharan											
Text Books and Refe	rences										
TEXT BOOKS:											
1. Gopala Krishnan,	, Mach	ine Dra	wing- S	Subash	publish	ners, 20	001.				
2. Bhatt, N.D. Mach	nine Dr	awing-	Charot	tar publ	lishing	House,	2000.				
REFERENCES:											
1. Narayana.K.L. M	[achine	Drawi	ng- Ne	w age p	oublishe	er, 2006	5.				
Course Description											
To make the students	under	stand a	nd inter	rpret dr	awings	of mac	hine C	ompon	entsso a	as to pre	epare
assembly drawings.											
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To familiarize the stu			man Sta	andards	on ara	wing p				compo	nents.
	Prerequisites Co-requisites ENGINEERING GRAPHICS Nil										
ENGINEERING GR		red, ele	otivo o	m coloce	Nil	tivo (or	To man To	hlo 5 1	1 \		
Dagwinad	requii	rea, eie	ctive, o	or select	ted elec	tive (as	s per 1a	able 3-1	l <i>)</i>		
Required Course Outcomes (Co	Oa)										
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CO2 Stude	ents wi	ll unde	rstand s	standaro	dization	of dra	wings .				
CO3 Stude	Student will understand the Indian and International standard components.										
CO4 Stude	Student will able create drawings to industrial standard.										
CO5 Learn	Learn what tolerance and fits and assembly										
CO6 Learn the difference between free sketching and machine drawing											
Student Outcomes (S	Os) fro	om Crit	erion 3	covere	d by th	is Cour	·se				
COs/SOs a	b	С	d	e	f	g	h	i	i	k	1
CO1 H	M	Н		_	L	L	L	L	L	L	_
CO2 H	M	Н			L	L	L	L			
СОЗ Н	M	Н			L	L	L	L			
СО4 Н	M	Н			L	L	L	L			
								1	1	1	
CO5 H	M	Н			L	L	L	L			

List of Topics Covered

Indian standard code (BIS) of practice for engineering drawing-General principle of presentation, Conventional representation of threaded parts, Springs, Gear and common features, Abbreviations and symbols use in technical drawings.

Tolerance- Types-Symbols used and representation on the drawing - Fit types, Selection for different application- Allowance, Interchangeability. Surface finish- Relation to the manufacturing processes- Types of representation on the drawing- Welding symbols.

Preparation of working drawing for given machine components:

Bolts, Screws, Studs, Nuts, Keys and Key-ways.

Preparation of simple assembly drawings:

Different types of cotter and knuckle joints.

Preparation of simple assembly drawing for following machine with part drawings given: Screw jack, Plummer block, Connecting rod, Machine vice, Tail stock of lathe, Tool head of shaper, fuel injection pump for single cylinder engine, Stop valve.