MERI College of Engineering and Technology

Asanda, Near Sampla (www.meri.edu.in/engineering)

Lesson Plan

Name of the Faculty	:	Dr.S.S.Arora (Theory & Practical)	
Discipline	:	Mechanical Engineering	
Semester	:	1 st	
Subject	:	Workshop Technology & Manufacturing Practice Lab	
Lesson Plan Duration	:	15 Weeks (from Aug., 2018 to Nov., 2018)	

** Work Load (Lecture/Practical) per week (in hours): Lectures-03, Practicals-06

Week	Theory		Practical		
	Lecture	Торіс	Practical	Торіс	
	Day	(including assignment/test)	day 1 st	_	
1 st	1 st	Manufacturing Processes: Introduction to Manufacturing Processes and their Classification, additive manufacturing Industrial Safety; Introduction,	1 st	To study different types of measuring tools used in metrology and determine least counts of vernier calipers, micrometers and	
	3^{rd} 4^{th}	Types of Accidents, Causes Common Sources of Accident,	-	vernier height gauges.	
2 nd	$ 5^{th} 6^{th} 7^{th} 8^{th} $	Methods of Safety, First Aid Objectives of Layout Types of Plant Layout and their Advantages. Carpentry, Fitting & Forming Processes	2 nd	To study different types of machine tools (lathe, shaper, planer, milling, drilling machines)	
3 rd	9 th 10 th 11 th 12 th	Basic Principle of Hot & Cold Working, Hot & Cold Working Processes Rolling, Extrusion, Forging Drawing, Wire Drawing and Spinning Sheet Metal Operations: Measuring Layout marking	3 rd	To prepare a job on a lathe involving facing, outside turning, taper turning, step turning, radius Making and parting-off.	

14thPiercing, Forming, Bending and Joiningfitting too tools u15thAdvantages of timber, types of timberP16thdefects in timber, carpentry toolsP	different types of ols and marking used in fitting practice.
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16 th defects in timber, carpentry tools	ractice
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eth aeth 1 ici i a tait the eth	
5 th 17 th classification of metals, fitting tools 5 th To prep	pare joints for
	suitable for butt
19 th Casting and Machine Tools welding a	and lap welding.
Introduction to Casting Processes	
20 th Basic Steps in Casting Processes	
6^{th} 21 st Pattern: Types of Pattern and 6^{th} To study	various types of
	tools and prepare
	es of at least two
1	oden joints.
23 rd Gating System. Melting of Metal	
24 th Cupola Furnace, Casting Defects &	
Remedies7th25thplastic moulding, lathe machine, lathe7thTo prep	1 1
	bare horizontal ace/vertical
	ace/curved
	ats or V-grooves
	aper/planner.
28 th Classification of Welding Processes,	
	e a job involving
	face milling on a
	milling
Welding	
31 st Arc Welding : Metal Arc,	
32 nd TIG welding	
	are lay out on a
	et by making and
35 Remedies, Soldering & Diazing.	rectangular tray
	ped components g. funnel.
10 th 37 th Revision of Syllabus	<u> </u>
38 th Revision of Syllabus	
39 th Revision of Syllabus	
40 th Revision of Syllabus	
41 st Revision of Syllabus	
11 th 42 nd Revision of Syllabus	
43 rd Revision of Syllabus	
44 th Revision of Syllabus	
45 th Revision of Syllabus	