

Lesson Plan

Name of the Faculty : Amit Phogat, Preeti
 Discipline : Mechanical Engg.
 Semester : 2nd
 Subject : Mechanical Engineering Drawing- I
 Lesson plan duration : 06 March 2023 to 23 June 2023

Week	Practical	
	Practical Day	Topic
Week-1	1 st	Detail and Assembly Drawing Principle and utility of detail and assembly drawings,
	2 nd	Practical exercise on drawing from detail to assembly or vice versa using different wooden joints
Week 2	1 st	lap joint – T joint and corner joint, Mortise and tenon joint, Bridle joint, Mitre faced corner joint).
	2 nd	Threads (02 sheets) Nomenclature of threads, types of threads
Week 3	1 st	Single and multiple start threads, right hand and left hand thread. Forms of various external thread sections
	2 nd	V thread (Metric thread, British associate
Week4	1 st	American thread, Basic whitworth thread), Square, Acme, Knuckle
	2 nd	Buttress thread. Simplified conventional representation of V thread.
Week 5	1 st	Different views of hexagonal and square headed nuts and bolts
	2 nd	Assembled view of nuts and bolts with washers. Foundation bolt
Week 6	1 st	Rag bolt, Hook bolt. Lewis bolt, Eye bolt and curved bolt (Free hand)
	2 nd	Locking nuts - Castle nut
Week 7	1 st	Sawn nut, and Split pin lock nut
	2 nd	Locking by spring washers
	1 st	Drawing of various types of machine and set screws

Week 8		
	2 nd	Drawing of various types' of studs, through bolt
Week 9	1 st	tap bolt and stud bolt
	2 nd	Various types of keys and their application.
Week 10	1 st	Preparation of drawings of various keys and cotters.
	2 nd	Various types of joints (a) Gib and Cotter joint (b) Knuckle joint (c) Spigot and Socket joint
Week 11	1 st	Types of general purpose rivet heads (Snap Head, Pan Head , Flat and counter sunk).
	2 nd	Types of riveted joints – lap (single and double riveted), butt (single cover plate and double cover plate
Week 12	1 st	chain and zigzag riveting (Double riveted).
	2 nd	Caulking and fullering operation of riveted joints.
Week 13	1 st	Introduction to coupling, their uses and types
	2 nd	Muff Coupling, Protected type flange coupling
Week 14	1 st	Flexible or non-rigid coupling
	2 nd	Introduction, Various 2 D commands
	1 st	Draw, modify and option commands

Week 15	2 nd	Prepare at least 4 sheets using CAD software
Week 16	1 st	one drawing each from wooden joint,
	2 nd	threads, nut