

Name of Faculty : Mr. Rampal  
 Discipline : Mechanical Engineering  
 Semester : II  
 Subject : ENGINEERING DRAWING II (Theory & Practical)  
 Lesson Plan Duration : 15 Weeks ( 9 January onwards)

Week	Theory		Practical	
	Lecture Day	Topic ( Including assignment/test)	Practical Day	Topic
I	1	Detail and Assembly Drawing: Principle and utility of detail and assembly drawings	1	Basic terminology
	2	Wooden Joints: i.e. corner mortise and tenon joint, Tee halving joint	2	Drawing of corner mortise and tenon joint
II	3	Mitre faced corner joint, Tee bridle joint, Crossed wooden joint,	3	Drawing of Mitre faced corner joint, Tee bridle joint, Crossed wooden joint
	4	Cogged joint, Dovetail joint,	4	Drawing of Dovetail joint, Cogged joint
III	5	Through Mortise and Tenon joint, furniture drawing - freehand and with the help of drawing instruments.	5	Drawing of Through Mortise and Tenon joint, furniture drawing
	6	Screw Threads Thread Terms and Nomenclature	6	Basic terminology ,drawing on Thread Terms and Nomenclature
IV	7	Types of threads-External and Internal threads, Right and Left hand threads (Actual and Conventional representation),	7	External and Internal threads, Right and Left hand threads
	8	Single and multiple start threads.	8	Single and multiple start threads.
V	9	Different Forms of screw threads-V threads (B.S.W threads, B.A thread, American National and Metric thread)	9	Drawing on V threads
	10	Square threads (square, Acme, Buttress and Knuckle thread)	10	Drawing on square threads
VI	11	Nuts and Bolts: Different views of hexagonal and square nuts. Square and hexagonal headed bolt.	11	basic terminology and Drawing of hexagonal and square nuts and bolts

	12	Assembly of Hexagonal headed bolt and Hexagonal nut with washer.	12	Drawing of Assembly of Hexagonal headed bolt and Hexagonal nut with washer
VII	13	Assembly of square headed bolt with hexagonal and with washer	13	Drawing of Assembly of square headed bolt with hexagonal and with washer
	14	Locking Devices Different types of locking devices-Lock nut, castle nut, split pin nut	14	Basic Terminology
VIII	15	locking plate, slotted nut and spring washer.	15	drawing of Lock nut, castle nut, split pin nut,locking plate, slotted nut and spring washer
	16	Foundations bolts-Rag bolt, Lewis bolt	16	Drawing of Foundations bolts
IX	17	curved bolt and eye bolt	17	Drawing of Foundations bolts
	18	Drawing of various types of studs	18	Drawing of various types of studs
X	19	Keys and Cotters Various types of keys and cotters - their practical application, drawings of various keys and cotters showing keys and cotters in position.	19	Basic Terminology, Drawing of various types of keys and cotters.
	20	Various types of joints Spigot and socket joint	20	Drawing of Spigot and socket joint
XI	21	Gib and cotter joint	21	Drawing of Gib and cotter joint
	22	Knuckle joint	22	Drawing of Knuckle joint
XII	23	Rivets and Riveted Joints Types of general purpose-rivets heads Caulking and fullering of riveted joints	23	Basic Terminology
	24	Types of riveted joints (i) Lap joint-Single riveted, double riveted (chain and zig-zag type)	24	Drawing of Lap joint-Single riveted, double riveted (chain and zig-zag type)
XIII	25	(ii) Single riveted, Single cover plate butt joint, iii)Single riveted, double cover plate butt joint	25	Drawing of Single riveted, Single cover plate and

				double cover plate butt joint
	26	(iv) Double riveted, double cover plate butt joint(chain and zig-zag type)	26	Drawing of Double riveted, double cover plate butt joint(chain and zig-zag type)
XIV	27	Couplings Introduction to coupling, their use and types	27	basic terminology
	28	Muff coupling	28	Drawing of Muff coupling
XV	29	Flange coupling (protected),Flexible Coupling	29	Drawing of Flange coupling (protected),Flexible Coupling
	30	Final Viva	30	Final Viva