Lesson plan

Name o	Name of Faculty		Mohanlal				
Discipline			CIVIL Engineering				
Semester			6				
Subject			SSD&D				
Lesson	Plan D	uration	From 15 Feb 2024 to 14 June 2024				
Work load [Theory + Practical] Per Week			[04+03]				
Week	Day	Theory To	opic/ Assignment/ Test	No.	Practical		
	1	Properties of structural steel as per IS Code		1	Drawing No. 1: Roof Truss – Drawing of Fink Roof Truss with details of joints, fixing details of purlins and roof sheets		
1st	2	Designation of structural steel sections as per IS handbook and IS:800					
	3	Types of Rivet, Permissible stresses in rivets					
	4	Types of riveted joints, specifications as per IS800, Failure of riveted joint					
	1	axially loaded number		2	Drawing No. 1: Roof Truss – Drawing of Fink Roof Truss with details of joints, fixing details of purlins and roof sheets.		
$2_{\rm nd}$	2	Numerical problem					
	3	Numerical problem					
	4	Numerical problem					
	1	Numerical problem			Drawing No.2 : Column and Column Bases - Drawing of		
$3_{\rm rd}$	2	Numerical problem		3	splicing of steel columns. Drawings of slab base, gusseted base and grillage base for single section steel columns		
Siu	3	Numerical problem					
	4	Types of bolt					
	1	permissible stresses in bolt					
4 _{th}	2	Types of bolted joints		4	Revision/File checking		
	3	Specifications for bolted joints as per IS 800					
	4	Failure of a bolted joint					
	1	Assumptions in the theory of bolted joints		5	Drawing No.2: Column and Column Bases - Drawing of splicing of steel columns. Drawings of slab base, gusseted base and grillage base for single section steel columns		
5 _{th}	2	Strength and efficiency of a bolted joint.					
	3	Design of bolted joints for axially loaded members					
	4	Types of welds and welded joints,					
	1	advantages and disadvantages of welded joint		6	Drawing No.3 : Column Beam Connections (a) Sealed and Framed Beam to Beam Connections (b) Sealed and Framed Beam o Column Connections		
	2	design of fillet and butt weld for axially loaded members					
6th	3	Numerical problem					
	4	Numerical problem					
	1	Analysis and design of single and double section tension members		7	Mid- term viva-voice/file checking		
$7_{\rm th}$	2						
	3	Numerical problem					
	4	Numerical problem			Drawing No. 4 : Plate Girder (Bolted)		
	1	Numerical problem Analysis and design of single and double angle sections compression members		8	Plan and Elevation of Plate Girder with details at		
8 _{th}	2	, , ,			supports and connection of stiffness, flange angles and cover plate with web		
	3	Numerical problem Numerical problem		1	highlighting curtailment of		
	4	•		1	Drawing No. 4 : Plate Girder (Bolted)		
9	1	Numerical problem		1	Plan and Elevation of Plate Girder with details at		
	3	Numerical problem		9	supports and connection of stiffness, flange angles and cover plate with web		
		Numerical problem		1	highlighting curtailment of		
	4	Numerical problem			plates)		

$10_{ m th}$	1	Form of trusses		REVIsion/File checking
	2	pitch of roof truss,		
	3	spacing of trusses		
	4	Test		
11	1	Revision		Revision/File checking
	2	Revision		
	3	spacing of purlins, connection between purlin		
	4	roof covering		
12 _{th}	1	Connection between purlin and principal rafter		Revision/File checking
	2	Revision		
	3	Types of column bases i.e. slab base, gusseted base.		
	4	Concept of buckling		
13 _{th}	1	effective length, slenderness ratio	13	Drawing No. 5 : Draw atleast one sheet using CAD
	2	Design of axially loaded single section column		
	3	Design of axially loaded single section column		software
	4	Design of axially loaded single section column		
14 _{th}	1	Analysis and design of single section simply supported laterally restrained steel		Drawing No. 5 : Draw atleast one sheet using CAD software
	2	Numerical problem Numerical problem		
	3			
	4	Introduction to plate girder		
15	1	Functions of various elements of a plate girder	15	Checking File
	2	Fabrication and erection of steel structures like trusses, columns and girders		
	3	Revision		Checking File
	4	Revision		