

RKCAT POLYTECHNIC BALASORE LESSON PLAN-2023/24(WINTER)					
Discipline : CIVIL ENGG.		Semester: 5th Sem		Name of the Teaching Faculty :DEBASISH JENA	
Subject : SD-II(Th.2)		per week class allotted : 04		Semester From date : 07.08.2023 to Date : 04.12.2024	
Month	Week	Day	Unit	Topics	
AUGUST	2ND	1ST	UNIT-1	common steel structures,advantages & disadvantages of steel structures.Types of steel,properties of structural steel.Rolled steel sections,load & load combination.	
				Structural analysis and design philosophy.	
		2ND		Limit state design.	
	3RD	1ST	UNIT-2	Bolted connection, classification of bolts ,advantages and disadvantages of bolted connections.	
		3RD		Types of bolted connection	
	4TH	1ST		Analysis & design of joints.	
		2ND		Welded Connections	
		3RD		Advantages & disadvantages of welded connection , Types of welded connection.	
		4TH		Design stresses in welds	
	5TH	1ST	UNIT-3	Design of Steel tension member-Common shapes of tension member.	
2ND		Analysis & design of tension members.			
4TH		Question and answer regarding tension member.			
SEPTEMBER	2ND	1ST	UNIT-4	Design of steel compression members-Common shapes of compression members.	
		2ND		Buckling class of cross sections, slenderness ratio.	
		4TH		Design compressive stress and strength of compression members.	
	3RD	1ST		do	
		2ND		Question and answer regarding compression member.	
		3RD		CLASS TEST-1	
	4TH	4TH	UNIT-5	Design of Steel beams-Common cross sections and their classification.	
		1ST		Deflection limits	
		4TH		web buckling and web crippling.	
	5TH	2ND		Design of laterally supported beams against bending.	
				Question Solved	
	OCTOBER	1ST		2ND	UNIT-6
3RD				Previous year questions & answer discussion	
4TH				Design of Tubular steel structures: Round tubular sections.	
2ND		1ST	INTERNAL		
		2ND	Compression & tension members (Tubular)		
		3RD	Joins in Tubular trusses		
3RD	3RD	Question & answers regarding tubular structure.			
	4TH	do			
NOVEMBER	1ST	3RD	UNIT-7	Previous year questions & answer discussion	
		4TH		do	
	2ND	1ST		Design of masonry structures :Consideration of masonry walls & column	
		2ND		do	
		3RD		Load & Non load bearing wall	
		4TH		Permissible stresses and their analysis.	
	3RD	1ST		do	
		2ND		Slenderness ratio, Effective length.	
		3RD		Consideration regarding height and thickness	
		4TH		Question & answers regarding Masonary wall	
	4TH	5TH	CLASS TEST -2		
		2ND	PRACTICE	Previous year questions & answer discussion	
				3RD	Previous year questions & answer discussion
		5TH		2ND	Doubt clearing class
3RD				Doubt clearing class	
4TH		Full set questions Test			
DECEMBER	2ND	1ST			Short types question discussion.