

SYNERGY POLYTECHNIC, BBSR

The Lesson Plan

Discipline: CIVIL ENGG		Semester: 5th	Name of the Teaching Faculty: Mrs Gunjan Mishra
Subject: SD-II		No of Days/per week class allotted: 04	Semester from Date: 1/8/23 to Date: 22.11.23 No of Weeks: 13
Week	Class Day	Theory/Practical Topics	
1st	1st	STEEL-	Introduction to steel structures.
	2nd		Types and properties, rolled steel sections
	3rd		loads and load combination.
	4th		Analysis and design philosophy.
	5th		
2nd	1st	BOLTED	Classification, advantages and disadvantages.
	2nd	CONNECTION	Diff ⁿ terms, spacing and edge distance.
	3rd		Types of bolted connection, efficiency.
	4th		Numericals.
	5th		
3rd	1st		Numericals of bolted connection.
	2nd	WELDED	Advantages and disadvantages.
	3rd	CONNECTION	Types and specification.
	4th		Design and strength in welding.
	5th		
4th	1st		Numericals.
	2nd		Numericals.
	3rd	TENSION	Common shapes, effective slenderness
	4th	MEMBERS.	ratio, Analysis of tension members.
	5th		
5th	1st		Numericals
	2nd		Numericals
	3rd		Numericals.
	4th		Concept of block shear failure.
	5th		

Gunjan Mishra
In of Faculty

Gunjan Mishra
HOD

Gunjan Mishra
Principal
26/7/23

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Discipline: CE	Semester: 5th	Name of the Teaching Faculty: Prof. M.M.
Subject: SO-1	No of Days/per week class allotted:	Semester from Date: 1.8.23 to Date: 20.11.23 No of Weeks:
Week	Class Day	Theory/Practical Topics
1st	1st	Design analysis
	2nd	do
	3rd	do
	4th	COMPRESSION Common shapes, buckling class
	5th	MEMBERS -
2nd	1st	Slenderness ratio.
	2nd	Design compressive stress & strength
	3rd	Analysis and design of members
	4th	Numericals
	5th	
3rd	1st	Numericals.
	2nd	STEEL Common cross-section, classification
	3rd	BEAMS- Deflection limits.
	4th	Web buckling and crippling.
	5th	
4th	1st	Design of laterally supported beams.
	2nd	Design numericals.
	3rd	do
	4th	do
	5th	
5th	1st	TUBULAR Round tubular section
	2nd	STRUCTURE Permissible stresses.
	3rd	Tubular compression members.
	4th	Tubular tension members.
	5th	

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Code: CE	Semester: 5th	Name of the Teaching Faculty: Pragna Mishra
Subject: SD-11	No of Days/per week class allotted:	Semester from Date: 1.8.22 to Date: 22.11.22
Week	Class Day	Theory/Practical Topics
1st	1st	Design numericals.
	2nd	Design numericals.
	3rd	MASONRY Introduction on masonry structure.
	4th	STRUCTURE Design consideration.
	5th	
2nd	1st	Design for walls and columns.
	2nd	Load bearing walls.
	3rd	Non-load bearing walls.
	4th	Permissible stresses and slenderness ratio
	5th	
3rd	1st	Effective length, height and thickness.
	2nd	Design numericals.
	3rd	— do —
	4th	— do —
	5th	
4th	1st	
	2nd	
	3rd	
	4th	
	5th	
5th	1st	
	2nd	
	3rd	
	4th	
	5th	

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Principal **26/9/22**