
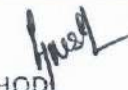


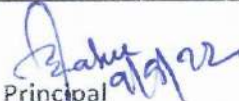
SYNERGY POLYTECHNIC, BBSR

Lesson Plan

Discipline: CIVIL ENGG	Semester: 5th	Name of the Teaching Faculty:
Subject: SD-II	No of Days/per week class allotted: 5	Semester from Date: 15/9/22 to Date: No of Weeks: 12
Week	Class Day	Theory/Practical Topics
1st	1st 15/12/22	MASONRY Introduction on masonry structures.
	2nd 15/12/22	STRUCTURES Design considerations for Masonry
	3rd 17/12/22	walls and columns.
	4th 17/12/22	Load bearing walls.
	5th 19/12/22	Non-load bearing walls.
2nd	1st 19/12/22	permissible stresses, slenderness ratio
	2nd 21/12/22	effective length, Height and thickness
	3rd 21/12/22	Design numericals.
	4th 22/12/22	do —
	5th 22/12/22	do —
3rd	1st	
	2nd	
	3rd	
	4th	
	5th	
4th	1st	
	2nd	
	3rd	
	4th	
	5th	
5th	1st	
	2nd	
	3rd	
	4th	
	5th	


Sign of Faculty

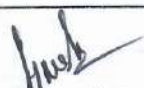

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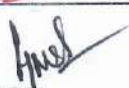

Principal

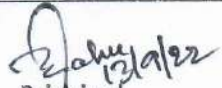
SYNERGY POLYTECHNIC, BBSR

Lesson Plan

Discipline: CIVIL ENGG	Semester: 5th	Name of the Teaching Faculty: Gunjan Mishra
Subject: SD-II	No of Days/per week class allotted: 04	Semester from Date: 15/9/22 to Date: 25/12/22 No of Weeks: 12
Week	Class Day	Theory/Practical Topics
1st	1st 15/9/22 STEEL	Introduction to steel structure. Merits & demerits
	2nd 17/9/22	Types and properties, rolled steel sections.
	3rd 26/9/22	Loads and load combination.
	4th 28/9/22	Analysis and design philosophy.
	5th 29/9/22	Principles of Limit State Design.
2nd	1st 1/10/22 BOLTED	Classification, advantages & disadvantages.
	2nd 8/10/22 CONNECTION	Diff ⁿ terms, spacing and edge distance.
	3rd 10/10/22	Types of bolted connection, efficiency.
	4th 12/10/22	Numericals.
	5th 13/10/22	— do —
3rd	1st 15/10/22 WELDED	Advantages and disadvantages.
	2nd 17/10/22 CONNECTION	Types and specification.
	3rd 19/10/22	Design and strength in welding.
	4th 20/10/22	Numericals.
	5th 22/10/22	— do —
4th	1st 26/10/22 TENSION	Common shapes, effective slenderness
	2nd 27/10/22 MEMBERS	ratio. Analysis of tension members.
	3rd 29/10/22	Design of tension members.
	4th 31/10/22	Numericals.
	5th 2/11/22	— do —
5th	1st 3/11/22	— do —
	2nd 5/11/22	Concept of block shear failure.
	3rd 7/11/22	Design analysis.
	4th 9/11/22	— do —
	5th 10/11/22	— do —


Sign of Faculty


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Principal

SYNERGY POLYTECHNIC, BBSR

The Lesson Plan		
Discipline: CIVIL ENGG	Semester: 5th	Name of the Teaching Faculty:
Subject: SD-II	No of Days/per week class allotted:	Semester from Date: 15/9/22 to Date: 12-12
Week	Class Day	Theory/Practical Topics
1st	1st 12/11/22	COMPRESSION MEMBERS
	2nd 14/11/22	
	3rd 17/11/22	Slenderness ratio
	4th 19/11/22	Design compressive stress and strength of compression members
	5th 21/11/22	
2nd	1st 23/11/22	Analysis and Design Numericals
	2nd 26/11/22	
	3rd 28/11/22	— do —
	4th 29/11/22	STEEL BEAMS
	5th 30/11/22	
3rd	1st 30/11/22	Common cross sections and their classification. Deflection limits. Web buckling and crippling.
	2nd 1/12/22	
	3rd 1/12/22	Design of laterally supported beams against bending and shear.
	4th 3/12/22	
	5th 3/12/22	Design numericals
4th	1st 5/12/22	— do —
	2nd 7/12/22	TUBULAR STRUCTURE - Round tubular section. permissible stresses.
	3rd 7/12/22	
	4th 9/12/22	Tubular compression members. Tubular tension members.
	5th 9/12/22	
5th	1st 10/12/22	Joints in tubular trusses. Design numericals
	2nd 10/12/22	
	3rd 12/12/22	— do —
	4th 14/12/22	Doubt clear classes
	5th 14/12/22	

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Principal 29/9/22