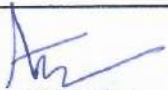


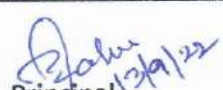
SYNERGY POLYTECHNIC, BBSR

The Lesson Plan

Discipline:	Semester:	Name of the Teaching Faculty:
Subject:	No of Days/per week class allotted:	Semester from Date: _____ to Date: _____ No of Weeks: _____
Week	Class Day	Theory/Practical Topics
1st	1st	<u>Slope and Deflection</u> : Shape and Nature of elastic Curve.
	2nd	Relationship bet ⁿ Slope, deflection and Curvature.
	3rd	Slope and deflection of different beams with different load combinations.
	4th	Analysis of Propped Cantilever beams.
	5th	Analysis of fixed beams.
2nd	1st	Introduction of truss Determinacy of truss.
	2nd	Determinacy of truss.
	3rd	Stable, unstable truss. Advantages of truss.
	4th	Analysis of Truss by method of Joint.
	5th	— do —
3rd	1st	— do —
	2nd	Analysis of truss by method of Section.
	3rd	— Numerical practice —
	4th	— do —
	5th	— do —
4th	1st	— do —
	2nd	Doubt clearing class
	3rd	
	4th	
	5th	
5th	1st	
	2nd	
	3rd	—
	4th	
	5th	


Sign of Faculty

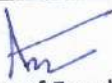

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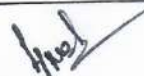

Principal 12/9/22

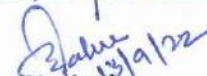
SYNERGY POLYTECHNIC, BBSR

The Lesson Plan

Discipline: CIVIL ENGG.		Semester: 3rd	Name of the Teaching Faculty: Anshuman Mishra.
Subject: STRUCTURAL MECHANICS		No of Days/per week class allotted: 05.	Semester from Date: 15.09.2022 to Date: No of Weeks:
Week	Class Day	Theory/Practical Topics	
1st	1st	Basic principle of mechanics.	
	2nd	Review of CG and MI of Different Section.	
	3rd	Review of CG and MI of Different Section.	
	4th	Simple Stress and Strains.	
	5th	Simple Stress and Strain.	
2nd	1st	Application of Simple Stress and Strain in Engg.	
	2nd	Application of Simple Stress and Strain in Engg.	
	3rd	Complex Stress and Strain	
	4th	Mohr's circle and its application.	
	5th	Mohr's circle and its application.	
3rd	1st	Stresses in beams due to bending.	
	2nd	Shear stress in beam.	
	3rd	Stresses in shafts due to torsion.	
	4th	Problems on above three concepts.	
	5th	Problems on above three concepts.	
4th	1st	Combined bending and direct stress.	
	2nd	Combined bending and direct stress.	
	3rd	Columns and Struts.	
	4th	Euler's theory of long columns, Critical Load	
	5th	Types of load on Beams.	
5th	1st	Shear force and bending moment in beams.	
	2nd	Shear force and bending moment in beams.	
	3rd	Shear force and bending moment in beams.	
	4th	Relation bet ⁿ Intensity of load, SF and BM.	
	5th	Position of Maximum BM, Point of Contra flexure.	


Sign of Faculty


HOD


Principal 14/9/22