

SYNERGY POLYTECHNIC, BBSR

The Lesson Plan

Discipline: CE	Semester: 3rd	Name of the Teaching Faculty: Arpita Samal
Subject: GTE	No of Days/per week class allotted: 04	Semester from Date: 1.7.24 to Date: 18.11.24 No of Weeks:
Week	Class Day	Theory/Practical Topics
1st	1st	Soil & Soil Engg. Scope of Soil Mechanics
	2nd	Origin & formation of soil
	3rd	Soil as three phase system
	4th	- do - ($w, p, G, e, s, n, a_c, I_p$)
	5th	- do - (Interrelation of various soil
2nd	1st	- do - Parameters)
	2nd	Numericals
	3rd	- do -
	4th	- do -
	5th	Index properties of soil - w
3rd	1st	Specific Gravity
	2nd	Particle size distribution
	3rd	- do -
	4th	Consistency of soils (L.L., P.L., S.L)
	5th	- do -
4th	1st	Numericals
	2nd	Classification of soil
	3rd	- do -
	4th	Plasticity Chart
	5th	- do -
5th	1st	Concept of Permeability
	2nd	Factors affecting permeability
	3rd	Methods of permeability
	4th	Seepage Press. & Effective stress
	5th	Numericals

10.6.24
Sign of Faculty

10/06/24
HOD

10/6/24
Principal

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Discipline: CE	Semester: 3rd	Name of the Teaching Faculty: A. Samal
Subject: GTE	No of Days/per week class allotted: 04	Semester from Date: 1.8.24 to Date: 18.11.24 No of Weeks: 18.11.24
Week	Class Day	Theory/Practical Topics
1st	1st	- do -
	2nd	- do -
	3rd	Compaction (light, heavy)
	4th	OMC, MDD, zero air void, methods
	5th	of compaction, factors affecting compaction
2nd	1st	Numerical
	2nd	- do -
	3rd	Consolidation - Terzaghi's model
	4th	- do -
	5th	Spring analogy
3rd	1st	shear strength (Mohr - Coulomb)
	2nd	c, ϕ , direct shear test
	3rd	Triaxial, vcs & vane shear test
	4th	- do -
	5th	Numerical practice
4th	1st	Active Earth Press, Passive Earth
	2nd	Rankine's formula
	3rd	- do -
	4th	Numericals
	5th	- do -
5th	1st	Foundation - Shallow, Deep
	2nd	Types of failure in foundation
	3rd	Bearing Capacity of soil
	4th	- do -
	5th	- do -

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The Lesson Plan

Discipline: CE	Semester: 3rd	Name of the Teaching Faculty: A. Samal
Subject: GTE	No of Days/per week class allotted: 04	Semester from Date: 1.2.24 to Date: 18.11.24 No of Weeks:
Week	Class Day	Theory/Practical Topics
1st	1st	Numerical
	2nd	- do -
	3rd	- do -
	4th	- do -
	5th	- do -
2nd	1st	Plate Load Test
	2nd	- do -
	3rd	Standard Penetration test
	4th	- do -
	5th	Numerical
3rd	1st	- do
	2nd	- do -
	3rd	- do -
	4th	- do -
	5th	Doubt clearing class
4th	1st	
	2nd	
	3rd	
	4th	
	5th	
5th	1st	
	2nd	
	3rd	
	4th	
	5th	

For 10.06.24
Sign of Faculty

Am
HOD 10/06/24

Principal 10/6/24