

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: 15.09.22 to Date: 22.12.22 No of Weeks:
Week	Class Day	Theory/Practical Topics
1st	1st 26.10.22	Consistency of soils, Atterberg's Limits
	2nd 27.10.22	- Same -
	3rd 29.10.22	PI, Consistency Index, Liquidity Index
	4th 1.11.22	Numerical
	5th	
2nd	1st 2.11.22	Numerical Practice
	2nd 3.11.22	- do -
	3rd 5.11.22	- do -
	4th 9.11.22	Classification of soil - I's class ⁿ , Plasticity chart
	5th	
3rd	1st 10.11.22	Permeability & Seepage - Intro ⁿ , Darcy's Law
	2nd 12.11.22	Co-efficient of permeability
	3rd 15.11.22	Factors Affecting Permeability
	4th 17.11.22	Const. head Permeability, Numerical
	5th	
4th	1st 19.11.22	Falling head Permeability Test
	2nd 22.11.22	Numerical Practice
	3rd 23.11.22	Seepage Press., effective stress
	4th 24.11.22	Phenomenon of quick sand
	5th	
5th	1st 26.11.22	Numerical Practice
	2nd 29.11.22	Compaction & consolidation - light & heavy
	3rd 30.11.22	OMC, MDD, zero air void line, Factors
	4th 1.12.22	Numerical Practice
	5th	

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Week	Class Day	Theory/Practical Topics
1st	1st 2.12.22	Consolidation & diff. bet ⁿ compaction & consol ⁿ ?
	2nd 6.12.22	Terzaghi model, spring analysis
	3rd 7.12.22	Numerical practice
	4th 8.12.22	Shear strength: Mohr-Coulomb theory
	5th	
2nd	1st 10.12.22	Cohesion, ϕ , Direct shear test
	2nd 10.12.22	Triaxial shear, UCS & vane shear test
	3rd 19.12.22	-do-
	4th 13.12.22	Numerical practice
	5th	
3rd	1st 21.09.22	Found ⁿ Engg.: Types of found ⁿ
	2nd 22.09.22	Types of shallow & deep found ⁿ with sketches
	3rd 23.09.22	Types of failure
	4th 29.09.22	Bearing capacity of soil using Terzaghi
	5th	
4th	1st 24.09.22	-do-
	2nd 27.09.22	Numerical practice
	3rd 27.09.22	Numerical practice
	4th 28.09.22	Effect of WT on bearing capacity of soil
	5th	
5th	1st 28.09.22	Numerical
	2nd 13.12.22	Plate load test & standard Penetration
	3rd 19.12.22	DCC
	4th 14.12.22	Earth Press. on Retaining St ^s : K_a, K_p
	5th	

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Week	Class Day	Theory/Practical Topics
1st	1st 14.12.22	Earth Press. at rest
	2nd 15.12.22	Numerical practice
	3rd 15.12.22	Numerical practice
	4th 15.12.22	Rankine's formula
	5th	
2nd	1st 17.12.22	Backfill with no surcharge
	2nd 20.12.22	Backfill with uniform surcharge
	3rd 21.12.22	DCC
	4th 22.12.22	Important Question Discussion for Sem
	5th	
3rd	1st	
	2nd	
	3rd	
	4th	
	5th	
4th	1st	
	2nd	
	3rd	
	4th	
	5th	
5th	1st	
	2nd	
	3rd	
	4th	
	5th	

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1st	1st 15.09.22	Introduction: Soil & Soil Engineering
	2nd 17.09.22	Scope of Soil Mechanics
	3rd 20.09.22	Origin & formation of soil.
	4th 21.09.22	Preliminary Defⁿ: Soil as a 3-phase System
	5th	
2nd	1st 22.09.22	Water content, f, G, e, n, S
	2nd 24.09.22	% age of a_c, I_D, L_f, P_{sat}, P_{sub}.
	3rd 27.09.22	Inter-relationship of various soil parameters.
	4th 28.09.22	- do -
	5th	
3rd	1st 29.09.22	- do -
	2nd 1.10.22	- do -
	3rd 8.10.22	- do -
	4th 14.10.22	Index Properties of soil: Water content
	5th	
4th	1st 14.10.22	Specific Gravity
	2nd 18.10.22	Particle size distribution, sieve analysis,
	3rd 15.10.22	wet mechanical analysis.
	4th 18.10.22	Particle size distribution curve & uses.
	5th	
5th	1st 19.10.22	Numerical
	2nd 20.10.22	- do -
	3rd 22.10.22	- do -
	4th 25.10.22	- do -
	5th	

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