Lesson Plan

Subject-Geo-Tech Engg, (Code): TH.2 Name of faculty : Er. Tina Guru Semester: 3rd

Class allotted : 50/60p

Branch :Civil Engg Session: 2024(w)

Discipline	Semester	From date: 01/07/24 To date:26/10/24	
Subject:	No. of days/ per week: 4p/week	Theory/ Practical -Topics/Lesson	Teaching Aid
Week	Date/Period		
1	01/07/2024 TO 06/07/2024	1 Introduction 1.1 Soil and Soil Engineering 1.2 Scope of Soil Mechanics	White board & Marker
2	08/07/2024 TO 13/07/2024	 1.3 Origin and formation of soil 2 Preliminary Definitions and Relationship 2.1 Soil as a three Phase system. 	White board & Marker
3	15/07/2024 TO 20/07/2024	2.2 Water Content, Density, Specific gravity, Voids ratio, Porosity, Percentage of air voids, air content, degree of saturation, density Index, Bulk/Saturated/dry/submerged density, Interrelationship of various soil parameters	White board & Marker
4	22/07/2024 TO 27/07/2024	3 Index Properties of Soil 3.1 Water Content 3.2 Specific Gravity	White board & Marker
5	29/07/2024 TO 03/08/2024	 3.3 Particle size distribution: Sieve analysis, wet mechanical analysis, particle size distribution curve and its uses 3.4 Consistency of Soils, Atterberg's Limits, Plasticity Index, Consistency Index, Liquidity Index 	White board & Marker
6	05/08/2024 TO 10/08/2024	 Classification of Soil 4.1 General 4.2 I.S. Classification, Plasticity chart 	White board & Marker
7	12/08/2024 TO 17/08/2024	 5 Permeability and Seepage 5.1 Concept of Permeability, Darcy's Law, Co-efficient of Permeability, 5.2 Factors affecting Permeability. 	White board & Marker

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		Topics/Lesson	Teaching Alu
Week	Date/Period	Theory/Practical – Topics/ Descent	White board
WEEK	20/08/2024	5.3 Constant head permeability and take of	8
	TO	permeability Test.	Marker
	24/08/2024	5.4 Seepage pressure, encode	Iviai Koi
8	24/06/2024		
		6 Compaction and Consolidation	White board
	27/08/2024	6.1 Compaction: Compaction, Light and	&
•	TO	heavy compaction Test, Optimum	Marker
	31/08/2024	Moisture And Antiput of Soil' Maximum dry density, Zero air	
9		void line. Factors affecting Compaction, Field	
		compaction methods and their suitability	
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	02/09/2024	6.2 Consolidation: Consolidation, distinction	White board
	TO	between compaction and consolidation.	&
10	06/09/2024	rerzagni's model analogy of compression, spinger	Marker
10	00/07/2021	implications	
	00/00/2024	7 Shear Strength	White board
	09/09/2024	7.1 Concept of shear strength, Mohr-	&
	10	Coulomb failure theory, Cohesion, Angle of	Marker
11	14/09/2024	Internal friction,	mancer
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		etropeth envelope for different type of soil	White board
	17/09/2024	Measurement of shear strength;- Direct shear	Printe Joard
	TO	test, triaxial shear test, unconfined compression	Markan
12	21/09/2024	test and vane-shear test	Marker
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			XXII 1 1
	23/09/2024	8 Earth Pressure on Retaining Structures	White board
	TO	8.1 Active earth pressure, Passive earth	&
13	28/09/2024	pressure, Earth pressure at rest.	Marker
	30/09/2024	8.2 Use of Rankine's formula for the following	White board
	TO	(i) Backfill with no surcharge. (ii) backfill with uniform	&
14	05/10/2024	surcharge	Marker
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'			
	07/10/2024	9 Foundation Engineering	White board
	TO	9.1 Functions of foundations, shallow and	&
15	09/10/2024	and deep foundations with sketches Types	Marker
15		of failure (General shear, Local shear &	
		punching shear)	
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7	- Week	D		
	16	Date/Period 17/10/2024 TO 19/10/2024	Theory/ Practical –Topics/Lesson 9.2 Bearing capacity of soil, bearing capacity of soils using Terzaghi's formulae	Teaching Aid White board & Marker
	17	21/10/2024 TO 26/10/2024	IS Code formulae for strip, Circular and square footings, Effect water table on bearing capacity of soil 9.3 Plate load test and standard penetration test	White board & Marker
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Tima Geerce, Signature of faculty