

Discipline:		Semester: 3rd	Name of the Teaching Faculty	
Subject: Teotech	No of Days/Week Class Allotted: _____	Semester From date _____ To _____ date _____		No of Weeks _____

WEEK	Class Day	Theory Topics
	1st	Introduction:— Soil & Soil Engineering scope of Soil Mechanics
	2nd	Origin and formation soil; types of formation types of soil.
	3rd	Preliminary Definitions and Relationship → Soil as three phase system
	4th	water content, Density, specific gravity, void ratio, porosity.
	5th	% of air voids, air content (copy checked)
	1st	degree of saturation, density bulk, density saturated, density submerged
	2nd	Interrelationship of various parameter
	3rd	Interrelationship of various Parameters
	4th	Interrelationship of various Parameters
	5th	Interrelationship of various parameters
	1st	class test & Revision (Assignment & copy checked note)
	2nd	Index properties of soil:— Introduction water content
	3rd	Specific gravity, Revision
	4th	Particle size distribution (Introduction)
	5th	Sieve analysis, wet mechanical analysis size distribution curve & its uses

WEEK

Class Day

Theory Topics

1st	consistency of soil → what is consistency example, how many types limit)
2nd	Atterberg's limits with graph
3rd	NO class.
4th	Plasticity limits, consistency limits, Liquid limit.
5th	Revision, notes check etc.
1st	classification of soil (1.5) (How many types soil)
2nd	classification of soil
3rd	NO class
4th	classification of soil
5th	classification of soil.
1st	Definitions of permeability with example.
2nd	Darcy's Law.
3rd	NO class
4th	coefficient of permeability
5th	coefficient of permeability Factors affecting permeability

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WEEK	Class Day	Theory Topics		
	1st	Factors affecting Permeability		
	2nd	Constant head permeability and Falling head permeability test		
	3rd	NO Class		
	4th	Seepage pressure.		
	5th	Effective stress, Phenomenon of quick sand.		
	1st	Problem of quick sand		
	2nd	What is compaction?		
	3rd	Light and heavy compaction test optimum content of soil		
	4th	- No class -		
	5th	Maximum dry density, zero air void line, Factor affecting compaction		
	1st	Consolidation - What is consolidation? distinction between compaction & ^{consoli-} _{dete-}		
	2nd	No Class		
	3rd	Terzaghi analogy -		
	4th	What is shear strength? cohesion, angle of internal friction		
	5th	Measurement of shear strength - Direct shear test / triaxial test		

WEEK	Class Day	Theory Topics
1	1st	an combined compression test
	2nd	Earth pressure :- what is earth pressure on retaining structures
	3rd	Types of earth pressure - Active earth pressure, passive earth pressure
	4th	No class
	5th	Ran fine's formula
2	1st	Foundation Engineering
	2nd	Foundation Engineering
	3rd	Foundation Engineering
	4th	Revision
	5th	class test
3	1st	Revision (chapterwise)
	2nd	Revision
	3rd	Revision
	4th	Revision
	5th	Revision