			DEP	ARTMENT OF CIVIL ENGINEERING
		Lesson	Plan For W	inter 2023-24 (From: 01.08.2023 To: 30.11.2023)
		: - I Engineering		Name of The Faculty: Lopamudra Nayak
Subject: Geotechnical Engineering 3rd Semester				No. of Days/Pr week Class Alloted: 04 hrs
	3rd Sei	mester	Periods	
Month	Week	Date/Class Day	Available	Topic To Be Covered
Wonth	VVEEK	Date;		Briefing of syllabus, introduction about the subject, books required, classroom
		02.08.2023	02 nos.	rules 1.1 soil and soil engineering
				1.2 scope of soil mechanics 1.3 origin of soil 2.1
				CHAPTER 2 - PRILIMINARY DEFINITIONS AND RELATIONS.
		04.08.2023	1 nos.	description of phase system in soil
				2.2 description about priliminary elements used in soil mechanics, water content
		05 00 2022	1 nos.	void ratio, porosity of soil, degree of saturation, air content and numerical practice
	1ST	05.08.2023	11103.	percentage air voids, unit weight of soil, relationship between various parameters,
				specific gravity
		09.08.2023	2 nos.	Numerical practice and Question answer discussion (Ch 1 & 2)
H		03.00.2023		CHAPTER 3 - INDEX PROPERTIES OF SOIL
AUGUST		11.08.2023	1 nos.	3.1 water content, specific gravity 3.2 particle size distribution
AU	2ND	12.08.2023	1 nos.	3.2 sieve analysis and numerical practice
			DE LA	3.3 consistency of soil, atterberg's limits, plasticity, liquidity and consistency index,
		16.08.2023	2 nos.	numerical practice
		18.08.2023	1 nos.	Quiz test
				Question answer discussion (Ch 3) CHAPTER 4 - CLASSIFICATION OF SOIL 4.1 different classification of soil
	3RD	19.08.2023	1 nos.	4.2 Description about indian standard classification system
		22.00.2022	2	Numerical practice and Question answer discussion (Ch 4)
		23.08.2023	2 nos.	CHAPTER 5 - PERMEABILITY AND SEEPAGE
		25.08.2023	1 nos.	5.1 definition of permiability , Darcy's law, coefficient of permiability
	4TH	26.08.2023	1 nos.	Monthly Test (August)
	4111	01.09.2023	1 nos.	5.2 Factors affecting permeability, 5.3 constant head permeability test
	5TH	02.09.2023	1 nos.	5.4 Seepage pressure, effective stress and phenomenon of quick sand
		08.09.2023	1 nos.	Numerical practice and Question answer discussion (Ch 5)
				CHAPTER 6 - COMPACTION AND CONSOLIDATION
				6.1 Compaction: compaction, light and heavy compaction test, Optimum moisture
	6TH	09.09.2023	1 nos.	content of soil
				Optimum moisture content of soil
~		12.00.2022	2	maximum dry density, zero air voin line, factors affecting compaction, field compaction method and their suitability, Numerical practice
BEF		13.09.2023	2 nos.	6.2 Consolidation: Consolidation, distinction between compaction and
E				consolidation, Terzaghi's model analogy method of compression/ springs showing
SEPTEMBER		15.09.2023	1 nos.	the process of consolidation - field implications
35	7TH	16.09.2023	1 nos.	Question answer discussion (Ch 6)
				CHAPTER 7 - SHEAR STRENGTH
		22.09.2023	1 nos.	7.1 concept of shear strength
	8TH	on to mohr's coulu		introduction to mohr's coulumb theory
		27.09.2023		Cohession, angle of internal friction, strength envelope for different type of soil
	9TH	30.09.2023		Monthly Test (September)
		04.10.2023		basic numericals, Direct shear test, triaxial test
	10TH	06.10.2023	1 nos.	Vane shear test and Unconfined compression test Quastion answer discussion (Ch.7.)
	10111	07.10.2023		Question answer discussion (Ch 7) CHAPTER 8 - EARTH PRESSURE RETAINING STRUCTURES
		11.10.2023		8.1. Concept of earth pressure
		11.10.2023		Internal assesment
OCTOBER		13.10.2023		8.1 active earth pressure, passive earth pressure, earth pressure at rest
	11TH	14.10.2023		8.1 active earth pressure, passive earth pressure, earth pressure at rest
		18.10.2023		Numerical practice on active, passive and earth pressure at rest
	12TH	20.10.2023	1 nos.	Monthly Test (October)
				CHAPTER 9 - FOUNDATION ENGINEERING
				9.1 introduction to foundation, functions of foundations, classification, different
		01.11.2023	2 nos.	type of shallow and deep foundation with neet sketch

type of shallow and deep foundation with neet sketch

01.11.2023

2 nos.

NOVEMBER		03.11.2023	1 nos.	Quiz Test
	13TH	04.11.2023	1 nos.	Types of failure in foundations 9.2 Bearing capacity of soil
	14TH	08.11.2023	2 nos.	Terzaghi's formulae and IS code formulae for strip, circular and square footing
		10.11.2023	1 nos.	Numerical practice of bearing capacity of soil
		11.11.2023	1 nos.	Numerical practice of bearing capacity of soil
		15.11.2023	2 nos.	9.3 Plate load test and standard penetration test
		17.11.2023	1 nos.	Numerical practic
	15TH	18.11.2023	1 nos.	Question answer discussion (Ch 8 & 9)
		22.11.2023	2 nos.	Doubt clearing class
		24.11.2023	1 nos.	Revision of entire syllabus
	16TH	25.11.2023	1 nos.	Mock Test
	17TH	29.11.2023	2 nos.	Mock Test
		TOTAL	58 nos.	

Signature of the Faculty

Signature of the Principal