		DEPARTM	ENT OF CIVIL ENGINE	EERING, OSME KEONJHAR
			Lesson Plan for Wi	nter 2022-23
Subject: <u>Geotechnical</u> <u>Engineering(3rd semester)</u>		No. of Days/Per week class alloted: <u>04/trs</u>	Name of the faculty: <u>Er. Lopamudra Nayak</u>	Semester From Date: <u>15-09-2022</u> To Date: <u>22-12-2022</u> , No. of weeks: <u>13</u>
Month	Week	Date/Class Day	Periods Available	Topic To Be Covered
SEPTEMBER	1st	16-09-2022	1	CHAPTER 1 - INTRODUCTION  Briefing of syllabus, introduction about the subject, books required, classroom rules 1.1 soll and soll engineering
		17-09-2022	1	1.2 scope of soil mechanics 1.3 origin of soil  CHAPTER 2 - PRILIMINARY DEFINITIONS AND RELATIONSHIP  2.1 description of phase system in soil
	2nd	21-09-2022	2	2.2 description about priliminary elements used in soil mechanics, water content void ratio, porosity of soil, degree of saturation, air content and numerical practice     percentage air voids, unit weight of soil, relationship between various
		23-Sep 24-09-2022	1 1	parameters, specific gravity, numerical practice numerical practice and Question answer discussion
	3rd	28-09-2022 30-09-2022	2 1	3.1 water content, specific gravity 3.2 particle size distribution 3.2 sieve analysis and numerical practice
		01-10-2022	1.	3.3 consistency of soil, atterberg's limits, plasticity, liquidity and consistency index, numerical practice  CHAPTER 4 - CLASSIFICATION OF SOIL
OCTOBER	4th	12-10-2022 14-10-2022 15-10-2022	2 1 1	Question answer discussion 4.1 different classification of soil 4.2 Description about Indian standard classification system Numerical practice and question answer discussion
	Sth	19-10-2022 21-Oct 22-10-2022	1 1	CHAPTER 5 - PERMEABILITY AND SEEPAGE      5.1 definition of permiability , Darcy's law, coefficient of permiability      5.2 Factors affecting permeability, 5.3 constant head permeability test  Numerical practice
	6th	26-10-2022 27-10-2022	2	5.3 falling head permeability test and numerical practice on constant head and falling head permeability test  Monthly test for the month of october  5.4 Seepage pressure, effective stress and phenomenon of quick
		28-10-2022 29-Oct	1	Numerical practice and question answer discussion  CHAPTER 6 - COMPACTION AND CONSOLIDATION
NOVEMBER	7th	02-11-2022	2	6.1 Description of compaction, light and heavy compaction test, Optimum moisture content of soil 6.2 maximum dry density, zero air voin line, different factors
		04-11-2022	1	affecting compaction, Numerical practice 6.2 description of consolidation, difference between compaction and
	8th	05-11-2022	2	consolidation, Numerical practice  Question answer discussion 7.1 concept of shear strength, introduction to mohr's coulumb theory
		11-11-2022	1	CHAPTER 7 - SHEAR STRENGTH  Cohession, angle of Internal friction, strength envelope for different type of soil
		12-11-2022 16-11-2022 17-11-2022	1	basic numericals, Direct shear test, triaxial test Internal Examination
	9th	18-11-2022	1	Vane shear test and Unconfined compression test Question answer discussion and revision  CHAPTER 8 - EARTH PRESSURE RETAINING STRUCTURES
		19-11-2022	1	8.1 Concept of earth pressure, introduction to different type of ear pressure, earth pressure at rest

		TOTAL	46	Model Test
	14th	21-12-2022	2	Final Revision & Probable Question Answer Discussion
		17-12-2022	1	Numerical practic
	13th	16-12-2022	1	9.3 Plate load test and standard penetration test
		14-12-2022	2	Numerical practice of bearing capacity of soil
		10-12-2022	1	footing
ā			-	Terzaghi's formulae and IS code formulae for strip, circular and square
EC		09-12-2022	1	Types of failure in foundations 9.2 Bearing capacity of soil
DECEMBER	12th	07-12-2022	2	9.1 introduction to foundation, functions of foundations, classification, different type of shallow and deep foundation with neet sketch
				CHAPTER 9 - FOUNDATION ENGINEERING
		03-12-2022	1	Numerical practice and question answer discussion
		02-12-2022	1	backfil with unifrom surcharge
	11th			8.2 Rankine's earth pressure theory for backfill with no sur charge and
		30-11-2022	2	Numerical Practice
		28-11-2022		Monthly test for the month of november
		26-11-2022	1	Numerical practice on active, passive and earth pressure at rest
	10th	25-11-2022	1	8.1 active earth pressure, passive earth pressure, earth pressure at rest

FACULY SIGNATURE

CIVIL ENGG.

2022

PRINCIPAL OSME, KECHIHAR

## SEPARTMENT OF CIVIL ENGINEERING, OSME KEONJHAR

			Lesson Plan	For Winter 2022-23			
Subject: Civil Engineering			No. of Days/Per	Name of the faculty:	Semester From Date: 15-09-2022		
Drawing I			week class	Er. LopamudraNayak	To Date: 22-12-2022		
			allotted : Qurs	<u> </u>	No. of weeks: 14		
Month	Week	Date/Class	Periods	Ton	ics to be covered		
		Day	Available	TOP	ics to be covered		
	CHAPTI		D SOFTWARE				
SEPTEMBER							
	1"	17.09.2022	2	Dimension, Modify com	cap of the Draw, Format, Edit, mands		
	2 <sup>nd</sup>	21.09.2022	3	Draw 2D drawings of Doors, Windows, Cross section through wall, Spread footing, Column footing, Stairs case, R.C.C. T-			
EP				beam and slab			
S	314	24.09.2022	2	Practice			
	4 <sup>th</sup>	28.09.2022	3	Practice			
		01.10.2022	2	Develop Isometric drawings of simple objects			
	4	12:10.2022	3	Develop 3D drawings of simple objects.			
	5 <sup>th</sup>	15.10.2022 19.10.2022	2	Practice			
		19.10.2022	3				
	CHAD	TED 2. DI 4N	EV EV ( EV )	Practice and Submissio	n		
. <del>2</del>	FROM	LINE DIACE	ELEVATION AND	SECTIONAL ELEVATION	ON OF FLAT ROOF BUILDING		
OCTOBER	5 <sup>th</sup>	22.10.2022	AM AND GIVEN SI	PECIFICATIONS with us	e of AutoCAD software.		
		22.10.2022	2		of a single storeyed R.C. roof slab and sectional views form given line on.		
	6 <sup>th</sup>	26.10.2022	3	Practice			
	29.10.2022		2	Detail drawing of Double storeyedpucca building with R.C.C. stair case from line diagram and given specification			
	7 <sup>th</sup>	02.11.2022			1		
	/	05.11.2022	3 2	Practice Practice			
	8th	09.11.2022	3				
1 kg 0 kg		03.11.2022	,	the norms of local apprets.	I drawing of a residential building as per oving authority with site plan, index plan		
		12.11.2022	2	Practice and Submiss	ion		
83	CHAPTER-3: PLAN, ELEVATION AND SECTION OF INCLINED ROOF BUILDING WITH AC SHEET/GCI/TILES ON WOODEN STRUCTURE with use of AutoCAD Commands						
IBE	9 <sup>th</sup>	16.11.2022	CODEN BING	Internal examination	OCAD Commands		
NOVEMBER		19.11.2022	2	Detail drawing of inclinand specification. (gat	ned roof building from given line diagrams		
	10th	23.11.2022	3	Practice			
		26.11.2022	2	Practice			
		ER-4: BUILDI	NG PLANNING				
	11 <sup>th</sup>	30.11.2022	3	Planning of buildings plinth area rate.	for specific cost based on approximate		

		02.10.00		
MBE		03.12.2022	2	Practice
	12th	07.12.2022 10.12.2022	3	Orientation of buildings, location of openings and living areas
			2	Practice
CE	13	14.12.2022	3	Line plan of School, hostel, market complex and dispensary
DE		17.10.000		building.
		17.12.2022	3	Practice and submission
	14th	21.12.2022	3	Record Submission
TOTAL		63		

Concerned Faculty

OSME Keonjhar.

Principal ANV OSME Keonihar