

LESSON PLAN

SUBJECT : GEOTECHNICAL ENGINEERING LAB (PR 3); COURSE CODE: CEPC 215

NAME OF FACULTY: BIJAYALAXMI HEMBRAM & SIPHON KUMAR PANDEY

SEMESTER: 3RD

YEAR: 2025-26

SESSION	COURSE TO BE COVERED	CLASSES REQUIRED (HOURS)	REMARKS
1	Determine water content of given soil sample by oven drying method as per IS: 2720 (Part-II).	4	
2	Determine specific gravity of soil by pycnometer method as per IS 2720 (Part III).	4	
3	Determine dry unit weight of soil in field by core cutter method as per IS 2720 (Part- XXIX).	4	
4	Determine dry unit weight of soil in field by sand replacement method as per IS 2720 (Part-XXVIII).	4	
5	Determine grain size distribution of given soil sample by mechanical sieve analysis as per IS2720 (Part- IV).	4	
6	Determine Plastic and Liquid Limit along with Plasticity Index of given soil sample as per IS 2720 (Part- V).	4	
7	Determine Shrinkage limit of given soil sample as per IS 2720 (Part- V).	4	
8	Use different types of soil to identify and classify soil by conducting field tests through Visual inspection, Dry strength test, Dilatancy test and Toughness test.	4	
9	Determine coefficient of permeability by constant head test as per IS 2720 (Part- XVII).	4	
10	Determine coefficient of permeability by falling head test as per IS 2720 (Part- XVII).	4	
11	Determine MDD and OMC by standard proctor test and modified proctor test of given soil sample as per IS 2720 (Part-VII).	8	
12	Determine shear strength of soil by direct shear test as per IS 2720 (Part-XIII).	4	
13	Determine shear strength of soil by vane shear and triaxial shear test as per IS 2720 (Part-XXX).	4	
14	Determination of CBR value on the field as per IS2720 (Part - XVI).	4	

60 HOURS

Signature of Faculty

Signature of HOD

19/8/25