Department of Civil Engineering

Govt. Polytechnic for Women Rehan

Distt. – Kangra (H.P.) – 176022

LESSON PLAN

Program Name	Civil Engineering
Subject Name	Geotechnical Engineering Lab
Subject Code	CEPC 221
Semester	3rd Semester
Subject Teacher Name	Er. Amish Rehalia

Sr. No.	Subject Name	Study scheme (Hrs/Week)		Marks in Evaluation Scheme					
				Internal Assessment			External Assessment		
		Th	DCS/PR	Th	Pr	Total	Th	Pr	Total
1	Geotechnical Engineering	0	2+2	0	40	40	0	60	60
Reference Books		Arora K R, Soil Mechanics and Foundation Engineering, Standard Publisher							
		Punmia, B.C., Soil Mechanics and Foundation Engineering, Laxmi Publication							

CO – 1	Identify types of rocks and sub soil strata of earth.
CO – 2	Interpret the physical properties of soil related to given construction activities.
CO – 3	Compute optimum moisture content values for maximum dry density of soil through various Tests

	Name of Practical	Proposed Date G1	Actual Date	Proposed Date G2	Actual Date	Remarks
1	Identification of rocks from the given specimen.	01-08-2024		06-08-2024		
2	Determine water content of given soil sample by oven drying method as per IS: 2720 (PartII	08-08-2024		13-08-2024		
3	Determine specific gravity of soil by pycnometer method as per IS 2720 (Part- III).	22-08-2024		20-08-2024		
4	Determine dry unit weight of soil in field by core cutter method as per IS 2720 (Part- XXIX	29-08-2024		27-08-2024		
5	Determine dry unit weight of soil in field by sand replacement method as per IS 2720 (Part XXVIII).	05-09-2024		03-09-2024		
6	Determine Plastic and Liquid Limit along with Plasticity Index of given soil sample as per IS 2720 (Part- V).	12-09-2024		10-09-2024		
7	Determine Shrinkage limit of given soil sample as per IS 2720 (Part- V).	19-09-2024		24-09-2024		
8	Determine grain size distribution of given soil sample by mechanical sieve analysis as per IS 2720 (Part- IV).	26-09-2024		01-10-2024		
9	VIVA	03-10-2024		08-10-2024		
10	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.	10-10-2024		15-10-2024		
11	VIVA	17-10-2024		22-10-2024		
12	Determine coefficient of permeability by falling head test as per IS 2720 (Part- XVII).	24-10-2024		05-11-2024		
13	VIVA	07-11-2024		12-11-2024		
14	Determine MDD and OMC by standard proctor test of given soil sample as per IS 2720 (Part VII)	14-11-2024		19-11-2024		
15	VIVA	21-11-2024		26-11-2024		
16	Doubt Session	28-11-2024				

(Signature of Teacher)

Approved

(Signature of HOD)

Principal
Govt. Polytechnic for Women
Rehan Distt. Kangra (H.P.)