

Lesson Plan

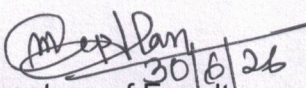
Course - Geotechnical Engg. Lab(Pr-3)
Semester- 3rd
Program- Civil Engineering
Institute - Govt. Polytechnic, Sonpur
Session - 2026-2027
Total Load-60(4/week)

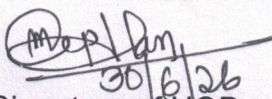
Sl. No.	Week No.	Class No.	Topic to be Covered
1	Week-1	Class-1	Water Content Test by Oven Drying Method (IS:2720 Part-II) – Sample preparation
2	Week-1	Class-2	Water Content Test by Oven Drying Method – Conduct of test
3	Week-1	Class-3	Water Content Test by Oven Drying Method – Calculations
4	Week-1	Class-4	Water Content Test by Oven Drying Method – Result and interpretation
5	Week-2	Class-5	Specific Gravity Test by Pycnometer Method (IS:2720 Part-III) – Sample preparation
6	Week-2	Class-6	Specific Gravity Test by Pycnometer Method – Conduct of test
7	Week-2	Class-7	Specific Gravity Test by Pycnometer Method – Calculations
8	Week-2	Class-8	Specific Gravity Test by Pycnometer Method – Result and interpretation
9	Week-3	Class-9	Dry Unit Weight by Core Cutter Method (IS:2720 Part-XXIX) – Preparation
10	Week-3	Class-10	Dry Unit Weight by Core Cutter Method – Conduct of test
11	Week-3	Class-11	Dry Unit Weight by Core Cutter Method – Calculations
12	Week-3	Class-12	Dry Unit Weight by Core Cutter Method – Result
13	Week-4	Class-1	Dry Unit Weight by Sand Replacement Method

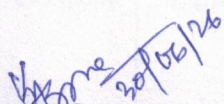
		3	(IS:2720 Part-XXVIII) – Preparation
14	Week-4	Class-1 4	Dry Unit Weight by Sand Replacement Method – Conduct of test
15	Week-4	Class-1 5	Dry Unit Weight by Sand Replacement Method – Calculations
16	Week-4	Class-1 6	Dry Unit Weight by Sand Replacement Method – Result
17	Week-5	Class-1 7	Liquid Limit Test (IS:2720 Part-V) – Sample preparation
18	Week-5	Class-1 8	Liquid Limit Test – Conduct of test
19	Week-5	Class-1 9	Plastic Limit Test – Conduct of test
20	Week-5	Class-2 0	Plasticity Index – Calculations and result
21	Week-6	Class-2 1	Shrinkage Limit Test (IS:2720 Part-V) – Sample preparation
22	Week-6	Class-2 2	Shrinkage Limit Test – Conduct of test
23	Week-6	Class-2 3	Shrinkage Limit Test – Calculations
24	Week-6	Class-2 4	Shrinkage Limit Test – Result and interpretation
25	Week-7	Class-2 5	Grain Size Distribution by Mechanical Sieve Analysis (IS:2720 Part-IV) – Sample preparation
26	Week-7	Class-2 6	Grain Size Distribution by Mechanical Sieve Analysis – Conduct of test
27	Week-7	Class-2 7	Grain Size Distribution – Calculations
28	Week-7	Class-2 8	Grain Size Distribution – Result and soil grading
29	Week-8	Class-2 9	Soil Identification by Visual Inspection
30	Week-8	Class-3	Soil Identification by Dry Strength Test

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31	Week-8	Class-3 1	Soil Identification by Dilatancy Test
32	Week-8	Class-3 2	Soil Identification by Toughness Test and Classification
33	Week-9	Class-3 3	Constant Head Permeability Test (IS:2720 Part-XVII) – Sample preparation
34	Week-9	Class-3 4	Constant Head Permeability Test – Conduct of test
35	Week-9	Class-3 5	Constant Head Permeability Test – Calculations
36	Week-9	Class-3 6	Constant Head Permeability Test – Result
37	Week-1 0	Class-3 7	Falling Head Permeability Test (IS:2720 Part-XVII) – Sample preparation
38	Week-1 0	Class-3 8	Falling Head Permeability Test – Conduct of test
39	Week-1 0	Class-3 9	Falling Head Permeability Test – Calculations
40	Week-1 0	Class-4 0	Falling Head Permeability Test – Result
41	Week-1 1	Class-4 1	Direct Shear Test (IS:2720 Part-XIII) – Sample preparation
42	Week-1 1	Class-4 2	Direct Shear Test – Conduct of test
43	Week-1 1	Class-4 3	Direct Shear Test – Calculations
44	Week-1 1	Class-4 4	Direct Shear Test – Result and interpretation
45	Week-1 2	Class-4 5	Vane Shear Test (IS:2720 Part-XXX) – Conduct of test
46	Week-1 2	Class-4 6	Vane Shear Test – Calculations and result
47	Week-1	Class-4	Triaxial Shear Test – Sample preparation

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48	Week-1 2	Class-4 8	Triaxial Shear Test – Conduct of test and observations
49	Week-1 3	Class-4 9	Standard Proctor Test (IS:2720 Part-VII) – Sample preparation
50	Week-1 3	Class-5 0	Standard Proctor Test – Conduct of test
51	Week-1 3	Class-5 1	Standard Proctor Test – Determination of MDD and OMC
52	Week-1 3	Class-5 2	Standard Proctor Test – Result and interpretation
53	Week-1 4	Class-5 3	Modified Proctor Test – Sample preparation
54	Week-1 4	Class-5 4	Modified Proctor Test – Conduct of test
55	Week-1 4	Class-5 5	Modified Proctor Test – Determination of MDD and OMC
56	Week-1 4	Class-5 6	Modified Proctor Test – Result and comparison with Standard Proctor Test
57	Week-1 5	Class-5 7	Field CBR Test (IS:2720 Part-XVI) – Site preparation
58	Week-1 5	Class-5 8	Field CBR Test – Conduct of test
59	Week-1 5	Class-5 9	Field CBR Test – Calculations
60	Week-1 5	Class-6 0	Field CBR Test – Result and interpretation


 Signature of Faculty
 Civil Engg, GP Sonpur


 Signature of HOD
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 Academic Co-ordinator
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