

PANIPAT INSTITUTE OF ENGINEERING AND TECHNOLOGY
PANIPAT
Department of Civil Engineering

LESSON PLAN

Semester: 8th Sem.

Faculty Name: Mr. Devender

Course Title: GE

Course No . CE-414N

S.No.	Lecture No.	Topics to be covered
1.	L-1	Basic Description of Geosynthetics: Historical Development
2.	L-2	The Nomenclature
3.	L-3	Function, Use around the World
4.	L-4	Applications
5.	L-5	Development in India
6.	L-6	Raw Materials – Their Durability and Ageing: Raw Materials
7.	L-7	Durability
8.	L-8	Degrading Agencies
9.	L-9	Polymers
10	L-10	Biological Resistance
11	L-11	Chemical Resistance
12	L-12	Weathering Resistance
13	L-13	Manufacturing Methods: Fibres, Yarn
14	L-14	Nonwoven Geotextiles
15	L-15	Woven Geotextiles
16	L-16	D.S.F. Fabrics
17	L-17	Geogrids- Testing and Evaluation
18	L-18	Factors influencing Testing, Sampling

19	L-19	Physical Properties
20	L-20	Mechanical Properties under Uniaxial loading
21	L-21	Tensile strength
22	L-22	Creep Testing
23	L-23	Erosion Control with Geogrids
24	L-24	Wind Erosion
25	L-25	Rain Water Erosion
26	L-26	Erosion Control Measures
27	L-27	Placement of Geogrid
28	L-28	Bearing Capacity Improvement with Geogrids
29	L-29	Advantages
30	L-30	Mechanism
31	L-31	Modes of Failure
32	L-32	Friction Coefficient
33	L-33	Experimental Studies
34	L-34	Application of Geosynthetics in Water Resource Projects:Introduction
35	L-35	Dharoi dam
36	L-36	Hiran II Dam
37	L-37	Meda Creek Irrigation Scheme
38	L-38	Lining of Kakarpar Canal
39	L-39	Revision

Devender
(COURSE INCHARGE)

Total No. of Lectures Planned: 39