

PANIPAT INSTITUTE OF ENGINEERING AND TECHNOLOGY
PANIPAT
Department of Civil Engineering
LESSON PLAN

Name: - Mr. Lalit Kumar
Branch/Semester: -6th SEM

Subject Name: - EG
Subject Code: -EL-326A

S.No.	Lecture No.	Topics to be covered
1.	L-1	Definition, object, scope and sub division of geology
2.	L-2	The interior of the earth, crust,
3.	L-3	Earthmantle and core
4.	L-4	Importance of geology in Civil Engineering projects
5.	L-5	Different branches of geology
6.	L-6	External and internal geological forces causing changes
7.	L-7	Origin of earth,erosion of the surface of the earth.
8.	L-8	Geological work of ice, wind, and water
9.	L-9	Soil profile and its importance
10.	L-10	Earth movement, earthquakes and volcanoes
11.	L-11	Revision
12.	L-12	Definition of mineral and rocks,
13.	L-13	Classification of minerals,
14.	L-14	Physical and chemical properties of minerals.
15.	L-15	Classification of rocks. Mineral composition,
16.	L-16	Textures, structure and origin of Igneous,
17.	L-17	Sedimentary and Metamorphic rocks.
18.	L-18	Elementary idea about outcrop

19.	L-19	Dip and strike
20.	L-20	Bedding plane, fold, fault
21.	L-21	Joint and unconformity
22.	L-22	General principles of stratigraphy of India
23.	L-23	Characteristics of Indian stratigraphy
24.	L-24	Revision
25.	L-25	Preliminary geological investigations- Use of geological maps and interpretation of data
26.	L-26	Geological reports, hydrogeology, water table, springs and artesian well
27.	L-27	Ground water in engineering projects, artificial recharge of ground water,
28.	L-28	Elementary ideas of geological investigation,
29.	L-29	Remote sensing techniques for geological and hydrological survey and investigation.
30.	L-30	Geological condition and their influence on the selection, location,
31.	L-31	Type and design of dams, reservoirs
32.	L-32	Type and design of tunnels, highways, bridges
33.	L-33	Geological definitions and aspects of landslides and Hill-slope stability
34.	L-34	Revision
35.	L-35	Precaution and treatment against faults, joints
36.	L-36	Ground water (electrical and seismic methods)
37.	L-37	Retaining walls and other treatments
38.	L-38	Engineering geology and its case study, water table, geology as a subject
39.	L-39	Flood plain deposits, deltas, waterfalls, lakes etc.
40.	L-40	Earth environment, global warming and effect.

41.	L-41	Revision
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(COURSE INCHARGE)