

MOTHER TERSEA INSTITUTE OF ENGINEERING & TECHNOLOGY  
PALAMANER - 517408  
ENGINEERING GEOLOGY (9A01505) - LESSON PLAN

Lecturer: T Siva Bharatha Murthy

Branch: CIV

Text Book: TEXTBOOK OF ENGINEERING GEOLOGY - N CHENNA KESAVULU

\* MY PREPARATION (WILL BE AVAILABLE ON NET [tsbm.co.in](http://tsbm.co.in))

Class No.	Topic	Unit	Estimated completion
1	Importance of geology from Civil Engineering point of view.	I	JUL
2	Brief study of case histories of failure of some Civil Engineering constructions due to geological draw backs.		JUL
3	Importance of Physical geology, Petrology and Structural geology.		JUL
4	Introduction to Weathering		JUL
5	Concepts of Weathering		JUL
6	Concepts of Weathering		JUL
7	Effect of Weathering with reference to Dams		JUL
8	Effect of Weathering with reference to Reservoirs		JUL
9	Effect of Weathering with reference to Tunnels		JUL
10	Effect of Weathering on common rocks	II	JUL
11	Introduction to Minerology, Properties of Minerals		JUL
12	Different meathods of Study of Minerals		JUL
13	Different meathods of Study of Minerals		JUL
14	Identification charaters of Minerals.		AUG
15	Study of different common rock forming minerals		AUG
16	Study of different common rock forming minerals	AUG	
17	Introduction to Petrology, Common Rock Types	III	AUG
18	Igneous Rocks study		AUG
19	Igneous Rocks study		AUG
20	Metamorphic Rocks study		AUG
21	Sedimentary Rocks study		AUG
22	Common Rock formations and identification features		AUG
23	Common Rock formations and identification features		AUG
24	Megascopic identification of different rocks.	AUG	
25	Introduciton to Structural Geology, Outcrops, Strike & Dip	IV	AUG
26	Geological structures in rerspect of strike and dip		AUG
27	Faults, Folds, Unconformities		AUG
28	Geological structures in respect of Fault, Fold and unconformities		AUG
29	Joints, Soils - Formations & Common Types in India		AUG
30	Case Studies	MID I	SEP
31	Revision - I		SEP
32	Revision - II		SEP
33	Introduction to Ground water, Water table		SEP
34	Springs, cone of depression, geological controls of ground water movement		SEP
35	Ground water exploration.		SEP
36	Earth quakes, their causes and effects		SEP

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Class No.	Topic	Unit	Estimated completion
37	Shield areas and seismic belts. Seismic waves, Richter scale	V	SEP
38	Precautions to be taken for building construction in seismic areas, Land slides, their causes and effect;		SEP
39	Measures to be taken to prevent the occurrence of Land Slides.		SEP
40	Importance of study of ground water, earth quakes and land slides.		SEP
41	Importance of Geophysical studies Principles of geophysical study	VI	OCT
42	Geophysical study by Gravity methods		OCT
43	Magnetic methods, Electrical methods		OCT
44	Seismic methods, Radio metric methods and Geothermal method		OCT
45	Special importance of Electrical resistivity methods, and seismic		OCT
46	Special importance of Refraction methods. Improvement of competence of sites by grouting etc		OCT
47	Geology in respect of Dams	VII	OCT
48	Types of dams and bearing of Geology of site in their selection part 1		OCT
49	Types of dams and bearing of Geology of site in their selection part 2		OCT
50	Geological Considerations in the selection of a dam site		OCT
51	Analysis of dam failures of the past (Reference to I Unit)		OCT
52	Introduction to tunnels, Purposes of tunneling	VIII	OCT
53	Effects of Tunneling on the ground Role of Geological Considerations		NOV
54	Effects of Tunneling on the ground Role of Geological Considerations		NOV
55	Revision - I	MID II	NOV
56	Revision - II		NOV