

LESSON PLAN (WINTER-26)

Discipline: Drilling Engineering		Semester: 3rdSemester	Name of the Teaching Faculty: Sagar Krishna Pahi (Lecturer Stage -1)			
Subject: Engg Geology – I Sub code: PR.3		No of days /week class allotted: 02	Semester from Date: 01/07/2026 to 05/11/2026 No of weeks:21			
Course outcomes			Statement			
CO1			Understand the fundamental concepts and principles of the subject.			
CO2			Explain the processes, theories, and mechanisms related to the course topics.			
CO3			Apply theoretical knowledge to solve practical problems.			
CO4			Analyse data, case studies, or field observations during appropriate methods.			
CO5			Evaluate different approaches and justify suitable solutions based on scientific reasoning.			
CO6			Develop professional, technical, and communication skills relevant to the discipline.			
Mo nth	week	No of periods available	Class Day	Theory topics to be covered	(COs)	Mode of Teaching
JULY	1 st	1P	NA	NA	NA	NA
			01.07.2026	Define weathering and erosion.	CO1	Lecture
	2 nd	2P	07.07.2026	Explain with suitable sketches the erosional features produced wind	CO2	PPT & Diagram
			08.07.2026	Explain with suitable sketches the depositional features produced wind	CO2	PPT & Diagram
	3 rd	2P	14.07.2026	Explain the erosional features produced by rivers with neat diagrams	CO2	PPT & Diagram
			15.07.2026	Explain the depositional produced by river with neat diagrams	CO2	PPT & Diagram
	4 th	2p	21.07.2026	Differentiate between glacier and iceberg.	CO4	Lecture & Discussion
			22.07.2026	REVISION	CO1, CO2	Discussion

AUGUST	5th	2p	28.07.2026	Explain the erosional features produced by glacier	CO2	PPT & Diagram
			29.07.2026	Explain the depositional features produced by glacier with neat sketches	CO2	PPT & Diagram
	1st	0p	NA	NA	NA	NA
	2nd		04.08.2026	Define a moraine. Describe the different types of moraine	CO2	PPT & Diagram
			05.08.2026	REVISION and PYQ discussion	CO1, CO2, CO4	Discussion & problem solving
	3rd	2P	11.08.2026	Ore, tenor, grade, ore forming mineral	CO1	Lecture & PPT
			12.08.2026	What is magmatic concentration deposits Describe?	CO2	PPT & Diagram
	4th	2P	18.08.2026	Describe how sedimentation process helps in formation of mineral deposits.	CO3	PPT & flow diagram
			19.08.2026	Write short notes on contact metasomatism	CO2	Lecture & Discussion
	5th	2P	25.08.2026	Pegmatites are the store house of minerals. elucidate	CO4	PPT & Discussion
			26.08.2026	NA	NA	NA

SEPTEMBER	1st	2P	01.09.2026	Describe hydrothermal deposits with examples	CO3	PPT & flow diagram
			02.09.2026	Describe how supergene enrichment helps in enrichment of sulphide ores	CO3	PPT & flow diagram
	2nd	2P	08.09.2026	Difference between residual & mechanical concentration deposits.	CO4	Lecture & comparative diagram
			09.09.2026	Describe residual and mechanical concentration deposits	CO3	PPT & Diagram
	3rd	2P	15.09.2026	Not available	NA	NA
			16.09.2026	Not available	NA	NA
	4th	2P	22.09.2026	Define soil. Describe the engineering properties of soils.	CO1, CO4	Lecture
			23.09.2026	Describe the various types of soils. Explain the mineralogy of soils	CO2	PPT & discussion
	5th	2P	28.09.2026	REVISION	CO2 & CO3	Discussion & Assessment
			29.09.2026	Monthly Test.	CO1, CO2, CO3	Written test
OCTOBER	1st	0P	NA	NA	NA	NA
	2nd	2P	06.10.2026	Explain the principles of Stratigraphy.	CO2	Lecture
			07.10.2026	Describe a brief idea about the Geological Time Scale		PPT & Geological time scale chart
	3rd	2P	13.10.2026	Give the stratigraphic sequence of Iron Ore Series	CO3	PPT & Stratigraphic chart
			14.10.2026	Give the, lithology, distribution and economic minerals deposit of Iron Ore Series	CO2	PPT & Geological map discussion
	4th	2P	20.10.2026	NA	NA	NA

			21.10.2026	Give the stratigraphic sequence, lithology, distribution and economic minerals deposit of Cuddapah Super group	CO2	PPT & discussion
			27.10.2026	Give the stratigraphic sequence, lithology, distribution and economic minerals deposit of, Vindhyan Super group	CO4	PPT & Stratigraphic chart
			28.10.2026	Give the stratigraphic sequence Gondwana Super group	CO3	PPT & discussion
	5th	2P				
NOVEMBER	1st	2P	03.11.2026	Give the, lithology, distribution and economic minerals deposit of Gondwana Super group	CO4	Lecture & discussion
			04.11.2026	Revision & previous year question & answer discussion	CO1, CO2, CO3, CO5	Discussion & problem solving

Sagar Krishna Pali

PREPARED BY
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