

Engineering Geology- I LAB
LESSON PLAN (WINTER-2026)

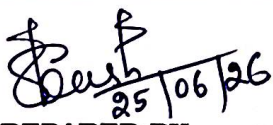
Discipline: Drilling Engineering	Semester : 3rd semester	Name of the Teaching Faculty: 1) MRS.SAMAPIKA DASH 2) SAGAR KRISHNA PAHI
Subject: Engineering Geology- I LAB Sub code: PR.3 DEPC215	No of days /week class allotted: 04(08p)	Semester from Date: 01/07/2026 to 05/11/2026 No of weeks: 21

Course Outcomes	Statement
CO1	Summarise mineralogy, its practical application to geology and geological maps.
CO2	Explain various techniques to recognize minerals outline their uses and interpret topographic maps.
CO3	Differentiate between crystals and minerals by utilising megascopic recognition process.
CO4	Evaluate physical properties of minerals by different testing methods.
CO5	Justify Rock forming, Ore forming minerals according to their properties and Outcrop completion from Geological Maps.

Month	Week	No of periods available	Class Day	Practical topics to be covered	FACULTY ASSIGNED	(COs)
JULY	1 st	06P	01.07.2026	Introduction about Minerals with Different Examples. Physical Properties of Minerals. Apparatus Used in Identification of Minerals.	SMT.S.DASH	CO4
			02.07.2025	Identification of rock forming mineral in hand specimens.	SRI.S.K PAHI	CO4
			03.07.2026	Identification of rock forming mineral in hand specimens.	SRI.S.K PAHI	CO4
	2 nd	08P	06.07.2025	Identification of rock forming mineral in hand specimens.	SMT.S.DASH	CO4
			08.07.2025	Identification of rock forming mineral in hand specimens.	SMT.S.DASH	CO4
			09.07.2026	Identification of rock forming mineral in hand specimens.	SRI.S.K PAHI	CO4
			10.07.2026	Identification of rock forming mineral in hand specimens.	SRI.S.K PAHI	CO4
	3 rd	06P	13.07.2025	Identification of rock forming mineral in hand specimens.	SMT.S.DASH	CO4
			15.07.2025	Identification of Ore forming mineral in hand specimens.	SMT.S.DASH	CO4
			17.06.2026	Identification of Ore forming mineral in hand specimens.	SRI.S.K PAHI	CO4
	4 th	08P	20.07.2026	Identification of Ore forming mineral in hand specimens.	SMT.S.DASH	CO4
			22.07.2026	Identification of Ore forming mineral in hand specimens.	SMT.S.DASH	CO4
			23.07.2026	Identification of Ore forming mineral in hand specimens.	SRI.S.K PAHI	CO4
			24.07.2026	EVALUATION OF RECORD	SRI.S.K PAHI	CO4
	5 th	08P	27.07.2026	EVALUATION OF RECORD	SMT.S.DASH	CO4

AUGUST			29.07.2026	Identification of Industrial mineral in hand specimens.	SMT.S.DASH	CO4
			30.07.2026	Identification of Industrial mineral in hand specimens.	SRI.S.K PAHI	CO4
			31.07.2026	Identification of Industrial mineral in hand specimens.	SRI.S.K PAHI	CO4
	6 th	NIL	NIL	NIL		
	7 th	08P	3.08.2026	Identification of Industrial mineral in hand specimens.	SMT.S.DASH	CO4
			5.08.2026	Identification of Industrial mineral in hand specimens.	SMT.S.DASH	CO4
			6.08.2026	Identification of Industrial mineral in hand specimens.	SRI.S.K PAHI	CO4
			7.08.2026	Identification of Industrial mineral in hand specimens.	SRI.S.K PAHI	CO4
	8 th	08P	10.08.2026	Identification of Industrial mineral in hand specimens.	SMT.S.DASH	CO4
			12.08.2026	Identification of Industrial mineral in hand specimens.	SMT.S.DASH	CO4
			13.08.2026	Identification of common rock with reference to their structure, mineral composition and uses (BRIEF DISCUSSION ON TYPES OF ROCKS AND HOW THE ROCKS CAN BE IDENTIFIED WITH EXAMPLE.)	SRI.S.K PAHI	CO3
			14.08.2026	Identification of common rock with reference to their structure, mineral composition and uses (BRIEF DISCUSSION ON TYPES OF ROCKS AND HOW THE ROCKS CAN BE IDENTIFIED WITH EXAMPLE.)	SRI.S.K PAHI	CO3
	9 th	08P	17.08.2026	Megascopic identification of Igneous rocks in hand specimens.	SMT.S.DASH	CO3
			19.08.2026	Megascopic identification of Igneous rocks in hand specimens.	SMT.S.DASH	CO3
			20.08.2026	Megascopic identification of Igneous rocks in hand specimens.	SRI.S.K PAHI	CO3
			21.08.2026	Megascopic identification of Igneous rocks in hand specimens.	SRI.S.K PAHI	CO3
	10 th	04p	24.08.2026	Megascopic identification of Sedimentary rocks in hand specimens	SMT.S.DASH	CO3
			28.08.2026	Megascopic identification of Sedimentary rocks in hand specimens	SRI.S.K PAHI	CO3
			31.08.2026	Megascopic identification of Sedimentary rocks in hand specimens	SMT.S.DASH	CO3
SEPTEMBER	11 th	04P	02.09.2026	Megascopic identification of Sedimentary rocks in hand specimens	SMT.S.DASH	CO3
			03.09.2026	EVALUATION OF RECORD	SRI.S.K PAHI	CO3
	12 th	06P	7.09.2026	Megascopic identification of Metamorphic rocks in hand specimens	SMT.S.DASH	CO3
			09.09.2026	Megascopic identification of Metamorphic rocks in hand specimens	SMT.S.DASH	CO3
			10.09.2026	Megascopic identification of Metamorphic rocks in hand	SRI.S.K PAHI	CO3

			specimens			
13 TH	04P	17.09.2026	Megascopic identification of Metamorphic rocks in hand specimens	SRI.S.K PAHI	CO3	
		18.09.2026	EVALUATION OF RECORD		CO3	
14 TH	08P	21.09.2026	Interpretation of Topographic Maps.	SMT.S.DASH	CO2	
		23.09.2026	Interpretation of Topographic Maps.	SMT.S.DASH	CO2	
		24.09.2026	Interpretation of Topographic Maps.	SRI.S.K PAHI	CO2	
		25.09.2026	Interpretation of Topographic Maps.	SRI.S.K PAHI	CO2	
15 TH	04P	28.09.2026	Interpretation of Topographic Maps.	SMT.S.DASH	CO2	
		30.09.2026	EVALUATION OF RECORD	SMT.S.DASH	CO2	
OCTOBER	16 TH	02P	01.10.2026	Interpretation of Geological Maps: Altitude and Cross Section.		CO1
	17 TH	08P	05.10.2026	Interpretation of Topographic Maps.	SMT.S.DASH	CO1
			07.10.2026	Interpretation of Geological Maps: Altitude and Cross Section.	SMT.S.DASH	CO1
			8.10.2026	Interpretation of Geological Maps: Altitude and Cross Section.	SRI.S.K PAHI	CO1
			9.10.2026	Interpretation of Geological Maps: Altitude and Cross Section.	SRI.S.K PAHI	CO1
	18 TH	08P	12.10.2026	Interpretation of Geological Maps: Altitude and Cross Section.	SMT.S.DASH	CO1
			14.10.2026	Interpretation of Geological Maps: Altitude and Cross Section.	SMT.S.DASH	CO1
			15.10.2026	Interpretation of Geological Maps: Altitude and Cross Section.	SRI.S.K PAHI	CO1
			16.10.2026	Outcrop Completion: One point problem and V- rule.	SRI.S.K PAHI	CO5
	19 TH	06P	21.10.2026	Outcrop Completion: One point problem and V- rule.	SMT.S.DASH	CO5
			22.10.2026	Outcrop Completion: Three point problem.	SRI.S.K PAHI	CO5
			23.10.2026	Outcrop Completion: Three point problem.	SRI.S.K PAHI	CO5
	20 TH	08P	26.10.2026	Interpretation of Geological Maps: Unconformable beds.	SMT.S.DASH	CO1
			28.10.2026	Interpretation of Geological Maps: Unconformable beds.	SMT.S.DASH	CO1
			29.10.2026	Interpretation of Geological Maps: Folded beds.	SRI.S.K PAHI	CO1
			30.10.2026	EVALUATION OF RECORD	SRI.S.K PAHI	CO5
NOVEMBER	21 ST	06P	2.11.2026	Interpretation of Geological Maps: Faults and Dykes.	SMT.S.DASH	CO1
			04.11.2026	Interpretation of Geological Maps: Faults and Dykes.	SMT.S.DASH	CO1
			05.11.2026	LAB PRACTICE & EVALUATION OF RECORD	SRI.S.K PAHI	CO1 TO CO5


 PREPARED BY
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