

LESSON PLAN				
Discipline: Drilling Engineering	Semester: 3rd semester	Name of the Teaching Faculty: MRS.SAMAPIKA DASH		
Subject: Engineering Geology - I Sub code: Th.3	No of days /week class allotted: 02	Semester from Date: 01/08/2023 to 30/11/2023 No of weeks: 19		
Month	Week	No of periods available	Class Day	Theory topics to be covered
August	1 st	02P	04.08.2023	Briefing about the Syllabus. Introduction about Geology and different branches of geology and scope of Geology for Drilling Engineering.
			04.08.2023	<u>The origin, nature, and geological classification of rock materials;</u> Internal structure of earth; Introduction about classification of the internal structure, The crust
	2 nd	02P	11.08.2023	Internal structure of earth; The Mantle & The Core.
			11.08.2023	Technical Seminar/Extension Lecture
	3 rd	02P	18.08.2023	Rocks and minerals with example. Igneous rocks and its types & formation of Igneous Rocks
			18.08.2023	Sedimentary rocks and its types & formation of Sedimentary Rocks
	4 th	02p	25.08.2023	Metamorphic rocks and its types & Formation of Metamorphic Rocks
	5 th	Na	Na	Na
	September	6 th	01.09.2023	Monthly Test-01
			01.09.2023	<u>Elements of Mineralogy</u> Minerals and rock forming and ore forming minerals with examples
		7 th	08.09.2023	<u>Physical properties of minerals</u> Color, streak, luster, Hardness
			08.09.2023	<u>Physical properties of minerals</u> Hardness, Moh's hardness scale, habit, odor, feel, tenacity
		8 th	15.09.2023	<u>Physical properties of minerals</u> Cleavage, fracture, Specific gravity, fluorescence, phosphorescence, magnetism.
			15.09.2023	Monthly test results and discussion. Doubt Clearing Class.
		9 th	22.09.2023	<u>Structural Geology</u> Introduction to structural Geology and Description of Outcrop, bed, Dip, Strike, True dip and apparent dip with diagram
			22.09.2023	True dip and apparent dip with diagram
October	11 th	02P	06.10.2023	Fold and different parts of fold with diagram.
			06.10.2023	Description of different types of fold. • Types based on symmetry of fold

November				<ul style="list-style-type: none"> Based on Thickness of fold Types based on appearance in cross-section
	12 th	02P	13.10.2023	Internal Assessment/Class Test
			13.10.2023	Internal Assessment/Class Test
	13 th	02P	20.10.2023	Description of different types of fold. <ul style="list-style-type: none"> Based on interlimb angle Based on Attitude of fold Special types of fold Faults and terminology of fault.
			20.10.2023	Description of different types of Faults with diagram. Recognition of faults in the field.
	14 th	NA	NA	NA
	November	15 th	03.11.2023	Monthly Test -02
			03.11.2023	Joints and different types of Joints.
		16 th	10.11.2023	Unconformity and how the unconformities have been formed in nature.
			10.11.2023	Study of different types of unconformities <ul style="list-style-type: none"> Angular Unconformity Disconformity Para unconformity Non -conformity
		17 th	17.11.2023	Monthly test-02 results and discussion.
			17.11.2023	Previous year question & Answer discussion
		18 th	24.11.2023	REEVISION AND DOUBT CLEARING CLASSES
			24.11.2023	
	19 th	NA	NA	NA

Dr. Dash
31/7/2023

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