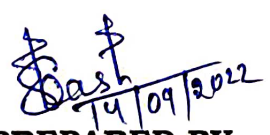
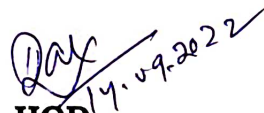


LESSON PLAN

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: 15/09/2022 to 22/12/2022 No of weeks: 15	
Month	Week	No of periods available	Class Day	Theory topics to be covered
September	1 st	02P	16.09.2022	Briefing about the Syllabus. Introduction about Geology and different branches of geology and scope of Geology for Drilling Engineering.
			16.09.2022	<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	23.09.2022	Internal structure of earth; The Mantle & The Core.
			23.09.2022	Rocks and minerals with example.
	3 rd	02P	30.09.2022	Igneous rocks and its types & formation of Igneous Rocks
			30.09.2022	Sedimentary rocks and its types & formation of Sedimentary Rocks
October	4 th	02P	14.10.2022	Metamorphic rocks and its types & Formation of Metamorphic Rocks
			14.10.2022	Monthly Test-01
	5 th	02P	21.10.2022	<u>Elements of Mineralogy</u> Minerals and rock forming and ore forming minerals with examples
			21.10.2022	<u>Physical properties of minerals</u> Color, streak, luster, Hardness
	6 th	02P	28.10.2022	<u>Physical properties of minerals</u> Hardness, Moh's hardness scale, habit, odor, feel, tenacity
			28.10.2022	<u>Physical properties of minerals</u> Cleavage, fracture, Specific gravity, fluorescence, phosphorescence, magnetism.
November	7 th	02P	04.11.2022	Monthly test results and discussion. Doubt Clearing Class.
			04.11.2022	<u>Structural Geology</u> Introduction to structural Geology and Description of Outcrop, bed, Dip, Strike, True dip and apparent dip with diagram
	8 th	02P	11.11.2022	Fold and different parts of fold with diagram.
			11.11.2022	Description of different types of fold. <ul style="list-style-type: none"> • Types based on symmetry of fold • Based on Thickness of fold • Types based on appearance in cross-section

December	9 th	02P	18.11.2022	Internal Assessment/Class Test
			18.11.2022	Internal Assessment/Class Test
	10 th	02P	25.11.2022	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.
			25.11.2022	Description of different types of Faults with diagram. Recognition of faults in the field.
	11 th	NA	NA	NA
	12 th	02P	02.12.2022	Monthly Test -02
			02.12.2022	Joints and different types of Joints.
	13 th	02P	09.12.2022	Unconformity and how the unconformities have been formed in nature. Study of different types of unconformities <ul style="list-style-type: none"> • Angular Unconformity • Disconformity • Para unconformity • Non -conformity
			09.12.2022	Monthly test-02 results and discussion. Previous year question & Answer discussion
	14 th	02P	16.12.2022	VERY SIMILAR TEST /MOCK TEST
			16.12.2022	
	15 th	NA	NA	NA


PREPARED BY
SAMAPIKA DASH
SENIOR LECTURER
MATH AND SC. (GEOLOGY)
OSME, KEONJHAR


HOD
DRILLING ENGINEERING
OSME, KEONJHAR


PRINCIPAL
OSME, KEONJHAR