

LESSON PLAN

Discipline: **Mining Engineering**

Semester: **3rd semester**

Name of the Teaching Faculty: **MRS.SAMAPIKA DASH**

Subject: **Mine Geology - I**
Sub code: **Th.3**


No of days /week class allotted: **02/week**


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	01P	15.09.2022	Briefing about the Syllabus. Introduction about Geology and different branches of geology and scope of Geology for Mining Engineering	
	2 nd	02P	21.09.2022	<u>Elements of Mineralogy</u> Minerals and rock forming and ore forming minerals with examples <u>Physical properties of minerals</u> Color, streak, luster, Hardness, Moh's hardness scale,	
			22.09.2022	<u>Physical properties of minerals;</u> Cleavage, fracture, tenacity, habit, odor, feel.	
	3 rd	02P	28.09.2022	<u>Physical properties of minerals;</u> Specific gravity, fluorescence, phosphorescence, magnetism.	
			29.09.2022	Monthly Test-01	
October	4 th	02P	12.10.2022	<u>Petrology</u> Rocks and minerals with Example. Igneous rocks and its types & how Igneous Rocks are formed?	
			13.10.2022	Sedimentary rocks and its types & how Sedimentary rocks are formed?	
	5 th	02P	19.10.2022	Metamorphic rocks and its types. & How Metamorphic Rocks formed?	
			20.10.2022	Monthly test results and discussion.	
	6 th	02P	26.10.2022	Texture and Various textures found in Igneous rocks	
27.10.2022			Porphyritic and poikilitic texture with diagram.		
November	7 th	02P	02.11.2022	Description of Various structures found in Igneous rocks.	
			03.11.2022	Description of Various structures found in sedimentary rocks.	
	8 th	02P	09.11.2022	Description of Various structures found in metamorphic rocks.	
			10.11.2022	Revision and Doubt Clearing class.	
	9 th	02P	16.11.2022	Internal Assessment/Class Test	
17.11.2022					

	10 th	02P	23.11.2022	Structural Geology Introduction to structural Geology and Description of Outcrop, bed, Dip, Strike, True dip and apparent dip with diagram Fold and different parts of fold with diagram.
			24.11.2022	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
	11 th	01P	30.11.2022	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.
December	12 th	01P	01.12.2022	Monthly Test -02
	13 th	02P	08.12.2022	Faults and terminology of fault
			09.12.2022	Description of different types of Faults with diagram. Recognition of faults in the field.
	14 th	02P	15.12.2022	Joints and its types.
			16.12.2022	<ul style="list-style-type: none"> • 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
	15 th	01P	22.12.2022	Revision & Previous year question & Answer discussion.
. VERY SIMILAR TEST/MOCK TEST				


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