

## LESSON PLAN

Discipline: <b>Mining Engineering</b>			Semester: <b>3<sup>rd</sup> Semester</b>	Name of the Teaching Faculty: <b>SABYASACHI BISWAL</b>
Subject: <b>Mine Geology - I</b> Sub code: <b>Th.3</b>			No of days /week class allotted: <b>02</b>	Semester from Date: <b>15/09/2022 to 22/12/2022</b> No of weeks: <b>15</b>
Month	week	No of periods available	Class Day	Theory topics to be covered
September	1 <sup>st</sup>	NA	NA	NA
	2 <sup>nd</sup>	2P	19.09.2022	Introduction about Geology & Scope of Geology in Mining Field.
			20.09.2022	<b>Element of Crystallography</b> Crystals and its types, Explain Miller's indices.
	3 <sup>rd</sup>	2P	26.09.2022	Describe the symmetry elements present in normal class of isometric system.
			27.09.2022	Forms present in the normal class of isometric system.
October	4 <sup>th</sup>	2P	10.10.2022	<b>Elements of Mineralogy</b> Silicate structures along with diagrams. 1. Nesosilicates, 2. Soro silicates, 3. Cyclo silicates
			11.10.2022	Silicate structures along with diagrams. 4. Chain silicates 5. sheet silicates 6. tecto silicates
	5 <sup>th</sup>	2P	17.10.2022	Various optical properties of minerals.
			18.10.2022	Various optical properties of minerals.
	6 <sup>th</sup>	1P	25.10.2022	<b>Monthly Test.</b>
	7 <sup>th</sup>	1P	31.10.2022	Physical properties of Quartz group of minerals.
November	8 <sup>th</sup>	1P	01.11.2022	Physical properties of Feldspar group of minerals.
	9 <sup>th</sup>	1P	7.11.2022	Physical properties of Olivine group of minerals.
	10 <sup>th</sup>	2P	14.11.2022	Physical properties of Pyroxene group of minerals.
			15.11.2022	<b>Revision and Doubt Clearing class.</b>
			17.11.2022/ 18.11.2022	<b>Internal Assessment.</b>
	11 <sup>th</sup>	2P	21.11.2022	<b>Physical Geology</b> Weathering and different types of weathering. 1. Physical weathering.
			22.11.2022	Weathering and different types of weathering. 2. Chemical Weathering. 3. Biological Weathering.
	12 <sup>th</sup>	2P	28.11.2022	Erosional land forms produced by wind. Erosion and its types
			29.11.2022	Depositional land forms produced by wind Dune and its types.

December	13 <sup>th</sup>	2P	5.12.2022	Erosional land forms produced by river.
			6.12.2022	Depositional land forms produced by river
	14 <sup>th</sup>	2P	12.12.2022	Erosional & Depositional features produced by glacier.
			13.12.2022	What is iceberg? Difference between glacier and iceberg
	15 <sup>th</sup>	2P	19.12.2022	Moraine and the different type of moraine with sketches.
			20.12.2022	<b>REVISION &amp; DOUBT CLEARING CLASSES.</b>

*verified*  
*Basit*  
*14/09/22*

**PREPARED BY**

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*H. L. M.*  
*14/9/22*

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