GOVERNMENT POLYTECHNIC JAJPUR	2
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		DEPARTMENT OF MINING ENGINEERING
Discipline:	Semester:3RD	LESSON PLAN
Subject: MINING GEOLOGY-I	No of Days/Week class alloted: 4	Name of the Teaching faculty: MALAYA RANJAN JEN Semester from Date: 15/09/22 To Date: 22/12/22 No of weeks: 15
Week	Class Day	Topics
1st	1st	Define weathering and erosion.
	2nd	Explain with suitable sketches the erosional and deposional land forms produced by Wind.
	Зrd	Explain with suitable sketches the erosional and deposional land forms produced by Wind.
	4th	Explain with suitable sketches the erosional and deposional land forms produced by Wind.
2nd	1st	Explain with neat sketches the erosional and deposional land forms produced by River.
	2nd	Explain with neat sketches the erosional and deposional land forms produced by River.
	3rd	Explain with neat sketches the erosional and deposional land forms produced by River.
	4th	Differentiate between Glacier and Iceberg.
	1st	Describe the erosional and depositional features produced by glacier.
3rd	2nd	Describe the erosional and depositional features produced by glacier
	3rd	Describe the erosional and depositional features produced by glacier
	4th	Define moraine. Describe the different type of moraine with skatshar
	1st	Define moraine. Describe the different type of moraine with skotches
4th	2nd	Define a Rock. Distinguish between a rock and a minoral
	3rd	Define Igneous, Sedimentary, Metamorphic rocks
<i>T</i>	4th	Define Igneous, Sedimentary, Metamorphic rooks
5th	1st	Describe the various textures and structures found in terms
	2nd	Describe the various textures and structures found in terms
	3rd	Describe the various textures and structures found in Ignorus
		sketches.
	1st s	Describe some important structures of sedimentary rocks along with neat sketches.
6th	2nd	CLASS TEST 1, Previous year questions, quiz test

	3rd	Describe various structure found in most state
	4th	Describe various structure found in metamorphic rocks.
7th	1st	Describe various structure found in metamorphic rocks.
	2nd	Define Dip. Distinguish between true dip and apparent dip.
	3rd	Define strike.
	4th	Define folds. Classify folds and describe them.
		INTERNAL - I
	1st	Define faults. Describe the various types of fault.
8th	2nd	Define unconformity. Describe the various type of unconformity with no sketches.
	3rd	Define joints. Describe various joints.
	4th	Define a crystal.
	1st	Explain Miller's indices.
	2nd	Explain Miller's indices.
9th	3rd	Explain Miller's indices.
	4th	Describe the symmetry elements and forms present in the normal class
	1st	Isometric system.
		Describe the symmetry elements and forms present in the normal class
		Isometric system.
10th	2nd	Describe the symmetry elements and forms present in the normal class
10(11		Isometric system.
	3rd	Describe the symmetry elements and forms present in the normal class
		Isometric system.
	4th	Define a mineral.
	1st	Enumerate and describe the physical properties of minerals.
11th	2nd	Enumerate and describe the physical properties of minerals.
	3rd	Describe various optical properties of minerals.
	4th	Describe various optical properties of minerals
	1st	Explain briefly the sillicate structures along with diagrams
12th	2nd	Explain briefly the sillicate structures along with diagrams
	3rd	Explain briefly the sillicate structures along with diagrams
	4th	Explain briefly the sillicate structures along with diagrams.
	1st	CLASS TEST- 2, Previous year questions, quiz test
	2nd	Classify minerals.
13th	3rd	Describe mineralogy and physical properties of Olivine group of minerals
	4th	Describe mineralogy and physical properties of Quartz group of minerals
14th	1st	Describe mineralogy and physical properties of Feldspar group of minerals
	2nd	Describe mineralogy and physical properties of Pyroxene group of
	3rd	minerals.
}		Previuos year questions, quiz
	4th	Previuos year questions, quiz

	REVISION, Doubt clearing class (DC)
2nd	REVISION, Doubt clearing class (DC)
3rd	INTERNAL - II
4th	REVISION
	RECOMMENDED BOOKS
Name of	
Author	Title of Books
Perbin Singh	Engineering Geology
P.k. Mukharjee	
G.B. Mohapatra	The text book of Geology
S. K. GHOSH	Structural Geology
G.B. Mohapatra	Physical Geology
Dana's	Text book of Mineralogy
Rutley's	Elements of Mineralogy
B.S. Rathhore	Basic of Crystallography and Mineralogy
	4th Name of Author Perbin Singh P.k. Mukharjee G.B. Mohapatra S. K. GHOSH G.B. Mohapatra Dana's Rutley's

Malay Rank Inc. Signature of Faculty