GOVERNMENT POLYTECHNIC JAJPUR

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DEPARTMENT OF MINING ENGINEERING

LESSON PLAN				
Discipline: MINING	Semester:3RD	Name of the Teaching faculty: MALAYA RANJAN JENA		
Subject: MINING GEOLOGY-I	No of Days/Week class alloted: 4	Semester from Date: 10/2 To Date: No of weeks: 16		
Week	Class Day	Topics		
1st	1st	Define weathering and erosion.		
	2nd	Explain with suitable sketches the erosional and deposional land forms produced by Wind.		
	3rd	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.		
3rd	1st	Describe the erosional and depositional features produced by glacier.		
	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 sketches.		
4th	1st	Define moraine. Describe the different type of moraine with sketches		
	2nd	Define a Rock. Distinguish between a rock and a mineral.		
	3rd	Define Igneous, Sedimentary, Metamorphic rocks.		
	4th	Define Igneous, Sedimentary, Metamorphic rocks.		
5th	1st	Describe the various textures and structures found in Igneous rocks.		
	2nd	Describe the various textures and structures found in Igneous rocks.		
	3rd	Describe the various textures and structures found in Igneous rocks.		
	4th	Describe some important structures of sedimentary rocks along with neat sketches.		

	1st	Describe some important structures of sedimentary rocks
6th	2.5 d	along with neat sketches.
	2nd	CLASS TEST 1, Previous year questions, quiz test
	3rd 4th	Describe various structure found in metamorphic rocks.
	1st	Describe various structure found in metamorphic rocks.
7th	2nd	Define Dip. Distinguish between true dip and apparent dip. Define strike.
	3rd	Define strike. Define folds. Classify folds and describe them.
	4th	INTERNAL - I
	1st	Define faults. Describe the various types of fault.
	2nd 3rd	Define unconformity. Describe the various type of
8th		unconformity with neat sketches.
		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.
		Describe the symmetry elements and forms present in the
	4th	normal class of Isometric system.
		Describe the symmetry elements and forms present in the
	1st	normal class of Isometric system.
		Describe the symmetry elements and forms present in the
10th	2nd	normal class of Isometric system.
		Describe the symmetry elements and forms present in the
	3rd	normal class of Isometric system.
	4th	Define a mineral.
	1st	Enumerate and describe the physical properties of minerals.
	2nd	Enumerate and describe the physical properties of minerals.
11th	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
13th	2nd	Classify minerals.
	3rd	Describe mineralogy and physical properties of Olivine group of minerals.
	4th	Describe mineralogy and physical properties of Quartz group of minerals.
	1st	Describe mineralogy and physical properties of Feldspar group of minerals.

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14th	2nd	Describe mineralogy and physical properties of Pyroxene
		group of minerals.
	3rd	Previuos year questions, quiz
	4th	Previuos year questions, quiz
15th	1st	REVISION, Doubt clearing class (DC)
	2nd	REVISION, Doubt clearing class (DC)
	3rd	INTERNAL - II
	4th	REVISION

Malaya Ravian Tere.
Signature of Faculty