SYNERGY SCHOOL OF ENGINEERING, DHENKANAL
LESSON PLAN
SESSION(2026-27)

DEPARTMENT OF MINING ENGINEERING

LESSON PLAN

Discipline:MINING	Semester:3RD	Name of the Teaching faculty:MITHUN PALEI(LECT. MINING)
Subject: MINING GEOLOGY-I	No of Days/Week class alloted:3	Semester from Date: 01/07/26 To Date: 05/11/26 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.
	3rd	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.
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	1st	Define moraine.Describe the different type of moraine with sketches
	2nd	Define a Rock.Distinguish between a rock and a mineral.
	3rd	Define lgneous,Sedimentary,Metamorphic rocks.
5th	1st	Describe the various textures and structures found in Igneous rocks.
	2nd	Describe the various textures and structures found in lgneous rocks.
	3rd	Describe the various textures and structures found in lgneous rocks.
6th	1st	Describe some important structures of sedimentary rocks along with neat sketches.
	2nd	CLASS TEST 1,Previous year questions,quiz test

MP 3/06/26.

	3rd	Describe various structure found in metamorphic rocks.
7th	1st	Define Dip.Distinguish between true dip and apparent dip.
	2nd	Define strike.
	3rd	Define folds.Classify folds and describe them.
8th	1st	Define faults.Describe the various types of fault.
	2nd	Define unconformity.Describe the various type of unconformity with neat sketches.
	3rd	Define joints.Describe various joints.
9th	1st	Explain Miller's indices.
	2nd	Explain Miller's indices.
	3rd	Explain Miller's indices.
10th	1st	Describe the symmetry elements and forms present in the normal class of Isometric system.
	2nd	Describe the symmetry elements and forms present in the normal class of Isometric system.
	3rd	Describe the symmetry elements and forms present in the normal class of Isometric system.
11th	1st	Enumerate and describe the physical properties of minerals.
	2nd	Enumerate and describe the physical properties of minerals.
	3rd	Describe various optical properties of minerals.
12th	1st	Explain briefly the sillicate structures along with diagrams.
	2nd	Explain briefly the sillicate structures along with diagrams.
	3rd	Explain briefly the sillicate structures along with diagrams.
13th	1st	Previous year questions,quiz test
	2nd	Classify minerals.
	3rd	Describe mineralogy and physical properties of Olivine 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 minerals.
	3rd	Previuos year questions,quiz
15th	1st	REVISION,Doubt clearing class(DC)
	2nd	REVISION,Doubt clearing class(DC)
	3rd	REVISION

31/05/26

Signature of Faculty

HOD 02/06/26

Mining Engg. Dept.
SSE Dhenkanal
HOD Mining

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