JHARKHAND Rai University
UGC RECOGNISED UNIVERSITY
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Lesson Plan & Tracking

Programe : BTECH	**Session : 2022-23**	**Year : 2022**	**Sem: III**
Course: MINING GEOLOGY I			
Name of the Faculty: PURUSHOTTAM KUMAR	**Commencement Date:29th Aug 2022**		**Date of Closure:**

Lecture No.	Week	Unit	Topics to be Covered	Blended Mode			Date	Duration	Tracking of Lectures	Related Course Outcome	Signature of Faculty	Signature of HoD	Remarks (if any)
				ICT Tool/Platform/ LMS	Resources	Activity							
1	1	UNIT 1	Physical Geology:										
2		UNIT 1	Origin of Earth, Interior of Earth										
3		UNIT 1	Study of Earth surface and features-										
4	2	UNIT 1	Mountains/valley/rivers/lakes/volcanoes,										
5		UNIT 1	study and their formation.										
6		UNIT 1	Types of rocks and										
7	3	UNIT 1	their process of formation,										
8		UNIT 1	types of minerals.										
9		UNIT 2	Mineralogy: Minerals:										
10	4	UNIT 2	Physical and chemical properties of crystal,										
11		UNIT 2	Types of crystallization system,										
12		UNIT 2	classification of minerals										

13		UNIT 2	properties of common silicate minerals and										
14	5	UNIT 2	Quartz Feldspar pyroxene										
15		UNIT 2	(Amphibole Garnet Olivine, Mica),										
16		UNIT 2	Sulphides										
17	6	UNIT 2	(Pyrite, Chalcopyrite Galena Sphalerite)										
18		UNIT 2	oxides										
19		UNIT 2	(Hematite, Magnetite, Chromites, Pyrolusite Psilomelane).										
20	7	UNIT 3	Petrology: Igneous rocks,										
21		UNIT 3	Magma and lava extrusive and intrusive forms										
22		UNIT 3	classification and description of some										
23	8	UNIT 3	common igneous rock (Granite Dolerite Gabbros' Basalt Rhyolite Pegmatite)										
24		UNIT 3	Sedimentary rocks, Sedimentation processes										
25		UNIT 3	classification and description of common Sedimentary rocks.										
26	9	UNIT 3	(Conglomerate Sandstone Shale Limestone)Metamorphic rock										
27		UNIT 3	Processes of metamorphism,										
28		UNIT 3	texture and structure of metamorphic rock,										
29	10	UNIT 3	classification and description of some common metamorphic rock										
30		UNIT 3	(Slate Pyrite Schist Gneiss, Quartzite, Marble)										

31		**UNIT 4**	Paleontology and Stratigraphy: Concept of paleontology,										
32	**11**	**UNIT 4**	Fossils their mode of preservation										
33		**UNIT 4**	significance as indices of age and climate,										
34		**UNIT 4**	concept of index fossils,										
35	**12**	**UNIT 4**	Principle of stratigraphy, Broad stratigraphy subdivision										
36		**UNIT 4**	Associated rock types of important coal belts and oil fields of India.										