JHARKHAND Rai University
UGC RECOGNISED UNIVERSITY
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Lesson Plan & Tracking

Programe : B.TECH	**Session : 2022-2023**	**Year : 2022**	**Sem: III**
Course: INTRODUCTION TO MINING			
Name of the Faculty: SURAJ DEV SINGH	**Commencement Date:29th August 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-I	Introduction to Mining &mineral: Definition										
2		UNIT-I	Different Types of Mining Methods										
3		UNIT-I	Mineral resources in India.										
4	2	UNIT-I	Uses of important minerals mined										
5		UNIT-I	e.g. Coal, lignite, iron ore, limestone copper,										
6		UNIT-I	zinc, bauxite, gold, manganese, mica etc.										
7	3	UNIT-I	Important Organizations involved like DGMS, CIL,										
8		UNIT-I	MECL, CMRI, IBM etc										
9		UNIT-I	their role and functions.										
10	4	UNIT-II	Mining Terminologies & definition										
11		UNIT-II	Common terminologies used in coal mining,										
12		UNIT-II	metal mining, mine ventilation										

13		**UNIT-II**	environment and mine supports										
14	**5**	**UNIT-II**	Simple definition, explanation, purposes and sketches										
15		**UNIT-II**	Mode of access:										
16		**UNIT-II**	Modes of entry to mine										
17	**6**	**UNIT-II**	Adit, Shaft, Trench,										
18		**UNIT-II**	Open Pit ant their description and sketches										
19		**UNIT-III**	Explosives & Accessories: Common explosive bases,										
20	**7**	**UNIT-III**	Properties of Explosives, High Explosive & Low explosive, their comparison.										
21		**UNIT-III**	Permitted explosives their types, composition, properties,										
22		**UNIT-III**	uses, advantages & disadvantages										
23	**8**	**UNIT-III**	Brand names of some commonly used explosive of each type. Detonator,										
24		**UNIT-III**	common types of detonators, plain detonators, instantaneous										
25		**UNIT-III**	delay action detonators their construction, uses, comparison etc.										
26	**9**	**UNIT-III**	low tension & high-tension detonators.										
27		**UNIT-III**	Safety fuses, detonating cords, detonating relays. Shot firing tools, exploders.										
28		**UNIT-IV**	Introductory lessons on working Coal										
29	**10**	**UNIT-IV**	Classifications of method of working coal (a) Board & Pillar										
30		**UNIT-IV**	(b) Open cast method (c) Long wall.										

31		**UNIT-IV**	Applicability condition for selection of each methods of working.										
32		**UNIT-IV**	Advantages, disadvantages ,Simple layout of each method										