JHARKHAND Rai University
UGC RECOGNISED UNIVERSITY
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Lesson Plan & Tracking

Programe : B.TECH	**Session : 2022-23**	**Year : 2022**	**Sem: SEVEN**
Course: ENVIRONMENTAL ASPECTS OF MINING			
Name of the Faculty: MRITUNJAY KUMAR	**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	Unit1	Introduction:										
2		Unit1	:Sustainable development										
3		Unit1	environmental carrying capacity -										
4	2	Unit1	concepts										
5		Unit1	principles										
6		Unit1	Environmental impacts of mining										
7	3	Unit1	associated activities										
8		Unit1	Ecology:Introduction to ecology,										
9		Unit1	ecosystem structures and functions.										
10	4	Unit 2	Air pollution										
11		Unit 2	Atmospheric composition and meteorology										
12		Unit 2	Sources of air pollution–point and non-point										

13		Unit 2	Emission factors;										
14	5	Unit 2	Control measures: extraction,										
15		Unit 2	suppression and consolidation of dust.										
16		Unit 2	Noise and vibration: Basic concepts										
17	6	Unit 2	sources, monitoring										
18		Unit 2	control measures.										
19		Unit3	Water pollution										
20	7	Unit3	:Global hydrological cycle;										
21		Unit3	Self purification mechanism ,sources of water pollution,										
22		Unit3	important parameters–pH, turbidity, oil &grease, nitrates,										
23	8	Unit3	DO, BOD, COD; Eutrophication, de oxygenation,										
24		Unit3	acid mine drainage and heavy metal pollution										
25		Unit3	preventive and control measures. Land environment										
26	9	Unit3	Land degradation due to mining;										
27		Unit3	Physical and biological reclamation.										
28		Unit4	Environmental administration:										
29	10	Unit4	Laws related to mining environment										
30		Unit4	EIA of mining projects.										

31		**Unit4**	Land Acquisition & Revenue: concept										
32	**11**	**Unit4**	Related laws and regulations										
33		**Unit4**	Corporate Social Responsibility:										
34		**Unit4**	Concepts and principles										
35	**12**	**Unit4**	Mine closure										
36		**Unit4**	Concepts and principles										