JHARKHAND Rai University
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Lesson Plan & Tracking

Programe : BTECH	**Session : 2022-23**	**Year : 2022**	**Sem: VII**
Course: MINING MACHINERY II			
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	Construction and operation of blast hole drills										
2		UNIT 1	rippers, shovels										
3		UNIT 1	hydraulic excavators,										
4	2	UNIT 1	scraper, dragline, dumpers,										
5		UNIT 1	wheel loaders, dozers, graders, surface miners, BWE,										
6		UNIT 1	spreader, stacker & reclaimer.										
7	3	UNIT 1	. High capacity belt conveyors–										
8		UNIT 1	constructional detail and selection procedures.										
9		UNIT 1	classification, layout and constructional features										
10		UNIT 1	Classification, application and										

11	4	UNIT 1	constructional features of crushers, breakers and feeders.										
12		UNIT 2	Surface and Underground Layout										
13	5	UNIT 2	Pit top and pit bottom circuits.										
14		UNIT 2	Surface structures										
15		UNIT 2	Surface handling systems										
16	6	UNIT 2	coal and ore handling plants.										
17		UNIT 2	Storage bunkers. Railway siding. Pit bottom layouts.										
18		UNIT 2	Winding Drum and friction winding,										
19	7	UNIT 2	headgears, headgear pulleys,										
20		UNIT 2	cages and skips,										
21		UNIT 2	keps and guides.										
22	8	UNIT 2	suspension gear,										
23		UNIT 3	Steam and electric winders,										
24		UNIT 3	safety devices in winders,										
25	9	UNIT 3	duty cycle. Automatic winding.										
26		UNIT 3	Multilevel winding.										

27		**UNIT 3**	Trackless Haulage										
28		**UNIT 3**	Types of conveyors and their sequence control.										
29	**10**	**UNIT 3**	High angle conveyor.										
30		**UNIT 3**	Free steered vehicles - shuttle cars,										
31		**UNIT 3**	LHD, SDL										
32	**11**	**UNIT 3**	low profile dump trucks (LPDT).										
33		**UNIT 4**	Aerial Ropeways Types										
34		**UNIT 4**	construction and installation										
35	**12**	**UNIT 4**	Loading, unloading and angle stations,										
36		**UNIT 4**	Man-riding Systems Statutory Provisions										