JHARKHAND Rai University
UGC RECOGNISED UNIVERSITY
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Lesson Plan & Tracking

Programe : DIPLOMA	**Session : 2022-23**	**Year : 2022**	**Sem: FIVE**
Course: MINING MACHINERY II			
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	UNIT-I	Mine pumps: Sources of water in Mines, Classification of Mine Pumps.										
2		UNIT-I	Reciprocating Pump , Single acting, Double acting and Ram pumps.										
3		UNIT-I	Centrifugal Pumps.										
4	2	UNIT-I	Turbine Pumps, Installation of pump, Operation of pump										
5		UNIT-I	Fitting on pump, Starting and stopping of pump.										
6		UNIT-I	Face pumps,										
7	3	UNIT-I	Characteristics Curves of Centrifugal and turbine pumps.										
8		UNIT-I	Calculations for pump discharge .										
9		UNIT-I	Snoring of pump, its prevention										
10	4	UNIT-I	Water hammer.										
11		UNIT-II	Coal Cutting Machine										
12		UNIT-II	Purpose of coal cutting machine										
13		UNIT-II	Classification of coal cutting Machine										

14	5	UNIT-II	Different types of cut										
15		UNIT-II	Different parts of CCM										
16	6	UNIT-II	Cutting gear arrangements of chain										
17		UNIT-II	Introduction of continuous miner										
18		UNIT-II	Different types of mechanical Loaders										
19	7	UNIT-II	Drills for coal and stone										
20		UNIT-II	various types										
21		UNIT-II	jumbo drill										
22	8	UNIT-III	Electric Power Supply: Types of cables used in mines										
23		UNIT-III	Permanent cable, Different types,										
24		UNIT-III	Construction of Semi flexible cable										
25	9	UNIT-III	Different types										
26		UNIT-III	Construction OF Flexible cable, Different types,										
27		UNIT-III	construction Screening of cable.										
28	10	UNIT-III	Cable joint box of cable,										
29		UNIT-III	Bleeding of cable,Cable care and maintenance during Use and storage										
30		UNIT-IV	Gate End box										
31	11	UNIT-IV	Construction of gate end box										
32		UNIT-IV	Safety provision in gate end box										

33		**UNIT-IV**	Pilot Circuit										
34		**UNIT-IV**	Different circuits for protection.										
35	**12**	**UNIT-I,II**	**REVISION**										
36		**UNIT-III,IV**	**REVISION**										