JHARKHAND Rai University
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Lesson Plan & Tracking

Programe : B.TECH	Session : 2022-2023	Year : 2022	Sem: VII
Course: DESIGN OF OPEN PIT MINES			
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	Remarl (if any
				ICT Tool/Platform/ LMS	Resources	Activity							
1	1	UNIT I	Preliminary evaluation of deposits,										
2		UNIT I	Different stages of exploration,										
3		UNIT I	Drilling for grade										
4	2	UNIT I	geo-technical information.										
5		UNIT I	Calculation of reserves,										
6		UNIT I	Collection of planning information.										
7	3	UNIT II	Optimal size										
8		UNIT II	output different stages of development,										
9		UNIT II	design of pit layout										
10		UNIT II	method of advance.										

11	**4**	**UNIT II**	Selection of open cast equipments,										
12		**UNIT II**	Equipment scheduling,										
13	**5**	**UNIT II**	Design for unit operations,										
14		**UNIT II**	rock breaking										
15		**UNIT II**	excavation										
16	**6**	**UNIT II**	transportation,										
17		**UNIT II**	storage										
18		**UNIT II**	dumping.										
19	**7**	**UNIT III**	Development of infrastructural facilities-										
20		**UNIT III**	Communication										
21		**UNIT III**	power supplies										
22	**8**	**UNIT III**	Illumination										
23		**UNIT III**	dewatering										
24		**UNIT III**	Other maintenance services,										
25	**9**	**UNIT III**	Site selection for mineral handling										
26		**UNIT III**	beneficiation plant.										

27		**UNIT III**	ore or mineral hanling plant										
28	**10**	**UNIT IV**	Control of opencast mining induced hazards-										
29		**UNIT IV**	Rock fall										
30		**UNIT IV**	fly rock										
31	**11**	**UNIT IV**	Blast vibration										
32		**UNIT IV**	Noise										
33		**UNIT IV**	Mine dusts,Planning for reclamation of mined out area.										