## **ORISSA SCHOOL OF MINING ENGINERRING**

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## **DEPARTMENT OF MINING ENGINEERING**

Discipline: M	ining En	gineerin	g	Semester: 6TH	Name of the Teaching faculty: Rajiv Lochan Bal		
class			Days/Week	CHAPIER	Semester from Date:14-02-23 To Date: 23-5-23 No of weeks: 16		
Month	Week	Period	Class Day		Topics		
FEBRUARY 4th	3rd	3	14.2.23	1.0 Underground face machineries	Describe constructional features, operation, principle & use of electric coal drill		
			15.2.23		State types of drill rods & drill bits used in electric coal drill.		
			17.2.23		Describe basic constructional features of gathering arm loader.		
		4	20.2.23		Describe basic constructional features of scraper loader.		
	/l+h		21.2.23		Describe basic constructional features of side discharge loader.		
	401		22.2.23		Describe basic constructional features of load & haul loader.		
			25.2.23		Describe basic constructional features & operation principle of jack hammer drill.		
	5th	2	27.2.23		Describe basic constructional features & operation principle of air leg rock drill.		
			28.2.23		Describe basic constructional features & operation principle of road header.		
	1st	2	1.3.23		Describe basic constructional features & operation principle of Shearer loader.		
			4.3.23		Describe basic constructional features of surface miner.		
	2nd	2	6.3.23		Describe basic constructional features of dragline.		
			11.3.23		Describe basic constructional features of shovel .		
MARCH		4	13.3.23		Describe basic constructional features of backhoe		
	3rd		14.3.23		Describe basic constructional features of bucket wheel excavator.		
			15.3.23		Describe basic constructional features of dumper.		
			18.3.23		Describe basic constructional features of dozer.		
	4th	4	20.3.23		Describe basic constructional features of scraper.		
			21.3.23		Describe basic constructional features of road grader.		
			22.3.23		Classify mine pumps.		
			25.3.23	3.0 Mine pumps	Describe constructional features, working & use of ram pumps		
	5th	3	27.3.23		MONTHLY CLASS TEST 1		

€ Anne			28.3.23		Centrifugal & turbine pumps.
					Describe constructional features of centrifugal
*			29.3.23		pump.
APRIL		4	3.4.23		Describe constructional features of turbine
			3.4.23		pumps.
	1st		4.4.23		State principle of centrifugal & turbine pumps &
					its applicability.
			5.4.23		Explain balancing the axial thrust of turbine
					pumps.
			8.4.23		Draw characteristic curves for turbine pumps.
		4	10.4.23		Solve numerical problems on centrifugal pumps.
			11.4.23		Solve numerical problems on turbine pumps.
	2nd		12.4.23		Describe constructional features and working principle & use of roto pump
			15.4.23		Describe constructional features & working
			13.4.23		principle of sinking pump.
			17.4.23		State procedure of suspension in shaft.
			18.4.23		Previous year questions, quiz.
	3rd	4	19.4.23	):	MONTHLY CLASS TEST 2.
			22.4.23	4.0 Bore hole pump	Describe constructional features & working of
			22.4.23		bore hole pump.
		4	24.4.23	pamp	State installation of bore hole pump
			25.4.23		State types of pipe & valves used in Mines.
	4th		26.4.23		INTERNAL ASSESMENT
			29.4.23		Describe constructional features of various type of
				_	valves.
	1st	4	1.5.23	~	Describe constructional features of various type of
				5.0 Pipes and valves	valves.
			2.5.23		State & describe different types of pipe joints.
			3.5.23		State & describe different types of pipe joints.
			6.5.23		Describe support of laying main pipe in shaft.
		4	8.5.23		Describe support of laying main pipe in shaft.
	2nd		9.5.23		Discuss the Pipe line layout.
MAY	2.1.0		10.5.23	8	Discuss the Pipe line layout.
WAY			13.5.23		Discuss Belt coveyor system of transportation
	3rd	4	15.5.23	Classes beyond Syllabus	Discuss different types of
					locomotive,construction,operation and use
			16.5.23		previous year question disscussion
			17.5.23		prévious year question disscussion
			20.5.23		Mock Test
	4th	2	22.5.23	_	Doubt Clear
			23.5.23		Doubt Clear

Prepared By-Rajiv Lochan Bal Sr. Lect.(Mining) OSME,Keonjhar

3.3.33

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