

Dicipline:	Mining	Semester: 6 th	Name of the Teaching Faculty: Mukesh Benera	
Subject:	Mine Machinery-II	No of Days/Week Class Allotted: _____	Semester From date: 13/02/23 To date: 23/3/23	No. of Weeks: _____
WEEK	Class Day	Theory Topics		
1 st	1st	Introduction to mine machinery.		
	2nd	various types of underground face machinery.		
	3rd	EXPLAIN electrical coal drill,		
	4th	DESCRIBE CONSTRUCTIONAL FEATURES & OPERATION OF ELECTRICAL COAL DRILL,		
	5th			
2 nd	1st	DESCRIBE PRINCIPLE & USE OF ELECTRICAL COAL DRILL,		
	2nd	STATE TYPE OF DRILL RODS & TURN OF DRILL RODS USED IN ELECTRICAL COAL DRILL,		
	3rd	STATE TYPES OF DRILL BITS & OPERATION TURN OF DRILL BITS,		
	4th	DESCRIBE BASIC CONSTRUCTIONAL FEATURES OF GATHERING ARM ROADER,		
	5th			
3 rd	1st	EXPLAIN CONSTRUCTIONAL FEATURES OF SCRAPER ROADER,		
	2nd	DESCRIBE CONSTRUCTIONAL FEATURES OF SCL & LHO,		
	3rd	DESCRIBE BASIC CONSTRUCTIONAL FEATURES & OPERATION PRINCIPLE OF JACK HAMMER DRILL,		
	4th	EXPLAIN CONSTRUCTIONAL FEATURE OF AIR LEG REEVE DRILL,		
	5th			

Theory Topics

WEEK	Class Day	Theory Topics
4 th	1st	Describe basic construction features of roof header & shearer loader.
	2nd	Explain working principle of roof head - etc & shearer loader.
	3rd	Explain various types of open cast machines - rills.
	4th	Explain constructional features of surface miner.
	5th	
5 th	1st	Explain working principle of dragline & shovel.
	2nd	Describe constructional features of Backhoe, BWB.
	3rd	Basic constructional features of bumper & dozer.
	4th	Working principle of scraper & road grader.
	5th	
6 th	1st	Explain various types of mine pumps.
	2nd	Classification of mine pumps.
	3rd	Describe constructional features, working & use of ram pumps.
	4th	Constructional features of centrifugal pump.
	5th	

Discipline:		Semester:	Name of the Teaching Faculty:	
Subject:		No of Days/Week Class Allotted: _____	Semester From date: _____ To date _____	No. of Weeks:

WEEK	Class Day	Theory Topics
7 th	1st	Working & constructional features of turbine pumps.
	2nd	Explain principle of centrifugal pump.
	3rd	Working principle of turbine pump.
	4th	Explain balancing the axial thrust of turbine pumps.
	5th	
8 th	1st	Explain characteristic curves for turbine pump.
	2nd	Solve problem on centrifugal pump.
	3rd	Solve problem on centrifugal pump.
	4th	Solve problem on turbine pumps.
	5th	
9 th	1st	Describe construction, features & use of moto pump.
	2nd	Working principle of moto pump.
	3rd	Describe constructional features of siphing pump.
	4th	Explain working principle of siphing pump.
	5th	

WEEK	Class Day	Theory Topics
10 th	1st	Describe Procedure of selection of shaft
	2nd	Describe constructional principle of bore hole pump.
	3rd	Explain working principle of bore hole pump.
	4th	Class of various types of bore hole pump
	5th	
11 th	1st	Procedure of Installation of bore hole pump.
	2nd	State types of pipe & valves used in mines.
	3rd	Describe constructional features of various type of valves.
	4th	Describe constn features of various type of valves.
	5th	
12 th	1st	State & describe different types of pipe joints.
	2nd	Support of laying main pipe in shaft.
	3rd	Discuss the pipe line layout
	4th	Discuss the pipe line layout
	5th	 