SYNERGY SCHOOL OF ENGINEERING, BANAMALIPRASAD DHENKANAL

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LESSONPLAN				
Discipline: MINING	Semester: 6TH	Name of the Teaching faculty: BISWAMBAR MAJHI		
Subject: MINE MACHINERY-11	No of	Semester from Date:04/02/25 To Date:17/05/25		
	Days/Week class alloted:4	No of weeks: 15		
Week	ClassDay	Topics		
	1st	Describe constructional features of electric coal dril		
	2nd	Describe constructional features, operation of electric coal dril		
1st	3rd	Describe constructional features, operation, principle & use of electric coaldril		
	4th	State types of drill rods & drill bits used in electric coal drill		
	1st	State types of drill rods& drill bits used in electric coal drill		
Γ	2nd	Describe basic constructional features of gathering arm loader		
2nd	3rd	Describe basic constructional features of scraper loader		
	4th	Describe basic constructional features of side discharge loader		
	1st	Describe basic constructional features of load & hau lloader		
	2nd	Describe basic constructional features & operation principle of jack hammer drill		
3rd	3rd	Describe basic constructional features & operation principle of airleg rockdrill		
	4th	Describe basic constructional features & operation principle of road header		
	1st	Describe basic constructional features & operation principle of road header		
	2nd	Describe basic constructional features & operation principle of Shearerloader		
4th	3rd	CLASSTEST-1		
	4th	Describe basic constructional features & operation principle of Shearerloader		
	1st	Describe basic constructional features of surface miner		
	2nd	Describe basic constructional features ofdragline		
5th	3rd	Describe basic constructionalfeaturesofshovel		
	4th	Describe basic constructional features of BACKHOE		
6th [1st	Describe basic constructional features of bucket wheelexcavator		
	2nd	Describe basic constructional features ofdumper		
	3rd	Describe basic constructional featuresofdozer		
	4th	Describe basic constructional features ofscraper		
	1st	Describe basic constructional features ofroadgrader		
	2nd	Classify mine pumps		
7th	3rd	Describe constructional features, working & use of rampumps		
	4th	Describe constructional features, working &use of ram pumps		
	1st	Describe constructional features, working & use of rampumps		
-	2nd	INTERNAL-1		
8th	3rd	Describe constructional features ofcentrifugal pump		
	4th	Describe constructional features ofturbine pumps		

a th	1st	State principle of centrifugal pumps & its applicability
	2nd	State principle of turbine pumps &itsapplicability
	3rd	Explain balancing the axialthrust ofturbinepumps
	4th	Draw characteristic curvesforturbine pumps
10th	1st	Solve numerical problems on centrifugalpumps
	2nd	Solve numerical problems onturbine pumps
	3rd	Describe constructional features and working principle &use of rotopump
	4th	CLASSTEST2
11th	1st	Describe constructional features and working principle &use of rotopump
	2nd	Describe constructional features &working principle of sinking pump
	3rd	Describe constructional features &working principle of sinking pump.
	4th	State procedure of suspensioninshaft
12th	1st	Describe constructional features &working of bore holepump
	2nd	Describe constructional features &working of bore holepump
	3rd	State installation of boreholepump
	4th	State types of pipe&valves used in Mines
13th	1st	Describe constructional features of varioustypeofvalves
	2nd	Describe constructional features of varioustypeofvalves
	3rd	State and describe various types of pipes joints
	4th	State and describe various types of pipes joints
14th	1st	Describe supporting of laying main pipe sinshaft
	2nd	Discuss the Pipe line layout
	3rd	INTERNAL2
	4th	PREVIOUS YEAR QUESTION DISCUSSION
15th	1st	REVISION/DOUBT CLEARING CLASSES/REMEDIAL CLASSES
	2nd	REVISION/DOUBT CLEARING CLASSES/REMEDIAL CLASSES
	3rd	REVISION/DOUBT CLEARING CLASSES/REMEDIAL CLASSES
	4th	REVISION/DOUBT CLEARING CLASSES/REMEDIAL CLASSES
		RECOMMENDEDBOOKS
SLNO.	Nameof Author	TitleofBooks
1	H.Cottor	Electrical equipmentin Mine
2	Desmukh &Desmukh	Winning and Working of IronOre
3	DJ.Desmukh	E.M.T.VolIII

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