GOVERNMENT POLYTECHNIC JAJPUR

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DEPARTMENT OF MINING ENGINEERING

		LESSON PLAN
Discipline:	Semester:	
MINING	6TH	Name of the Teaching faculty: Prabhudutta Mishra
Subject:	No of	Semester from Date: 16.01.24 To Date: 26.04.24
	Days/Wee	No of weeks: 15
MACHINER	k class	
Y – II	alloted: 4	
Week	Class Day	Topics
1st	1st	Describe constructional features of electric coal drill
	2nd	Describe constructional features, operation of electric coal drill
	3rd	Describe constructional features, operation, principle & use of electric coal drill
	4th	State types of drill rods & drill bits used in electric coal drill.
2nd	1st	State types of drill rods & drill bits used in electric coal drill.
	2nd	Describe basic constructional features of gathering arm loader.
	3rd	Describe basic constructional features of scraper loader.
	4th	Describe basic constructional features of side discharge loader.
3rd	1st	Describe basic constructional features of load & haul loader.
	2nd	Describe basic constructional features & operation principle of jack hammer drill.
	3rd	Describe basic constructional features & operation principle of air leg rock drill.
	4th	Describe basic constructional features & operation principle of road header.
4th	1st	Describe basic constructional features & operation principle of road header.
	2nd	Describe basic constructional features & operation principle of Shearer loader.
	3rd	CLASS TEST-1
	4th	Describe basic constructional features & operation principle of Shearer loader.
5th	1st	Describe basic constructional features of surface miner.
	2nd	Describe basic constructional features of dragline.
	3rd	Describe basic constructional features of shovel .
	4th	Describe basic constructional features of BACKHOE .
6th	1st	Describe basic constructional features of bucket wheel excavator.
	2nd	Describe basic constructional features of dumper.
	3rd	Describe basic constructional features of dozer.
	4th	Describe basic constructional features of scraper.
7th	1st	Describe basic constructional features of road grader.
	2nd	Classify mine pumps.
	3rd	Describe constructional features, working & use of ram pumps
	4th	Describe constructional features, working & use of ram pumps
8th	1st	Describe constructional features, working & use of ram pumps
	2nd	INTERNAL-1
	3rd	Describe constructional features of centrifugal pump.
	4th	Describe constructional features of turbine pumps.

	1st	State principle of contribugal number 8, the pro-line bills
9th	2nd	State principle of centrifugal pumps & its applicability.
	3rd	State principle of turbine pumps & its applicability.
	4th	Explain balancing the axial thrust of turbine pumps.
10th	1st	Draw characteristic curves for turbine pumps.
	2nd	Solve numerical problems on centrifugal pumps.
	3rd	Solve numerical problems on turbine pumps. Describe construction
	4th	Describe constructional features and working principle & use of roto pump CLASS TEST 2
11th	1st	
	2nd	Describe constructional features and working principle & use of roto pump Describe constructional features & working principle & use of roto pump
-2011	3rd	Describe constructional features & working principle & use of roto pump Describe constructional features & working principle of sinking pump.
	4th	Describe constructional features & working principle of sinking pump. State procedure of suspension in sheft.
	1st	State procedure of suspension in shaft.
12th	2nd	Describe constructional features & working of bore hole pump.
12(11	3rd	Describe constructional features & working of bore hole pump. State installation of bore hole pump.
	4th	State installation of bore hole pump.
13th	1st	State types of pipe & valves used in Mines. Describe construction of Bore note pump.
	2nd	The constitutional toatument
	3rd	
	4th	State and describe various types of pipes joints.
14th	1st	The arm account of the same of
	2nd	The supporting of laving main
	3rd	Discuss the Pipe line layout.
	4th	
	1st	PREVIOUS YEAR QUESTION DISCUSSION
1 E + L	2nd	REVISION/DOUBT CLEARING CLASSES/REMEDIAL CLASSES
15th	3rd	THE VISION / DOUBT CLEARING CLASSES / DENAEDIAL CO.
	4th	REVISION/DOUBT CLEARING CLASSES/REMEDIAL CLASSES REVISION/DOUBT CLEARING CLASSES/REMEDIAL CLASSES
		REVISION/DOUBT CLEARING CLASSES/REMEDIAL CLASSES
		RECOMMENDED BOOKS
SL NO.	Name of	TOTAL BOOKS
SL NO.	Author	Title of Books
1	H. Cotton	
2	Desmukh &	Electrical equipment in Mine
	Desmukh	Winning and Working of Iron Ore
3	D.J.Desmukh	

Signature of Faculty