

GOVERNMENT POLYTECHNIC JAIPUR

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DEPARTMENT OF MINING ENGINEERING

LESSON PLAN

Discipline: Mining	Semester: 3rd	Name of the Teaching faculty: SOUBHAGYA GHADAI
Subject: MOM (Th4)	No of Days/Week class allotted: 2	Semester from Date: 15.09.2022 To Date: 22.12.2022 No of weeks: 15
Week	Class Day	Topics
1st	1st	CH.2 . Elements of Hydraulics. Various fluid properties.
	2nd	Define pressure of fluid and pressure head
2nd	1st	State and explain working principle of various pressure measuring devices such
	2nd	State and explain continuity equation.
3rd	1st	State and explain Bernoulli's theorem.
	2nd	Explain working of venturimeter.
4th	1st	Solve numerical problems on above.
	2nd	Solve numerical problems on above
5th	1st	Define and classify orifices.
	2nd	State the formula and discharge for rectangular orifices and solve problems.
6th	1st	State the formula and discharge for rectangular orifices and solve problems.
	2nd	Define and differentiate between orifice and notch.
7th	1st	Classification notches.
	2nd	State formula for discharge through notches & solve problem on above.
8th	1st	State and explain laws of fluid friction.
	2nd	Explain hydraulic gradient and energy gradient and Solve numerical problems as above.
9th	1st	Define section modules. Find out section modules for beam section of simple cases.
	2nd	class test 1
10th	1st	CH. 3. Compressed air. Explain introduction of compressed air as a power.
	2nd	Explain introduction of compressed air as a power.
11th	1st	Classify Compressor & state working principle.
	2nd	Classify Compressor & state working principle.

12th	1st	Classify Compressor & state working principle.
	2nd	State various methods of transmission and storage of compressed air.
13th	1st	State the various methods of transmission and storage of compressed air.
	2nd	State the various methods of transmission and storage of compressed air.
14th	1st	State and explain the advantages of use of compressed air in mines.
	2nd	State and explain the advantages of use of compressed air in mines.
15th	1st	Explain the working principle of pneumatic machines.
	2nd	CLASS TEST 2

Sonthagya Bhadai
Signature of Faculty