

LESSON PLAN

SESSION-SUMMER-2024

SWAMI VIVEKANANDA SCHOOL OF ENGG. & TECH. BBSR



DISCIPLINE- MINING ENGG.	SEMESTER- 4TH	NAME OF THE FACULTY-ER. JAGAN KHATOI	REMARK
SUBJECT- MV	NO.OF CLASS ALOTTED/ WEEK-5	SEMESTER FROM-16.01.2024-26.04.2024	
WEEK	DATE	TOPICS	
1ST	16.01.2024	Introduction class on mine ventilation.	
	17.01.2024	Definition of natural ventilation and factors affecting natural ventilation.	
	18.01.2024	Describe the different types of Thermometer.	
	19.01.2024	Describe the different types of Barometer.	
2ND	22.01.2024	Describe kata thermometer.	
	23.01.2024	Describe water gauge.	
	24.01.2024	Calculate ventilation pressure by using piton static tube.	
	25.01.2024	Explain effects of heat & humidity.	
3RD	29.01.2024	Explain natural ventilation motive column, geothermic gradient.	
	30.01.2024	Enumerate laws of mine air friction and solve problems on above.	
	31.01.2024	Statutory provision as per CMR 2017,MMR 1961.	
	01.02.2024	Doubt class.	
4TH	02.02.2024	Mock test.	
	05.02.2024	Air Crossing and distribution	
	06.02.2024	Describe ventilation stopping, air crossing, ventilation door, brattice partition.	
	07.02.2024	Describe different types of ventilation.	
5TH	08.02.2024	Accessional & declensional ventilation.	
	09.02.2024	Homotropical & Antitropical ventilation.	
	12.02.2024	Boundary ventilation.	
	13.02.2024	Central & combined ventilation.	
6TH	15.02.2024	Explain splitting of air current & solve numerical problems on splitting.	
	16.02.2024	Describe air locks at pit top.	
	19.02.2024	Overall discussion.	
	20.02.2024	Mechanical Ventilation.	
7TH	21.02.2024	Explain construction & principle of operation of centrifugal flow fans.	
	22.02.2024	State fan laws & calculate fan efficiency and capacity.	
	23.02.2024	Explain installation of mine fan with reversal arrangement.	
	26.02.2024	Describe fan drift, fan drive, evasee and diffusers.	
8TH	27.02.2024	Explain fan characteristics and mine characteristics.	
	28.02.2024	Describe methods of output of mine fans.	
	29.02.2024	Describe installation, location and purpose of booster fan.	
	01.03.2024	Booster fan and its Effects	
	04.03.2024	Solve problems relating to booster fan.	
	05.03.2024	Describe systems of auxiliary ventilation.	

9TH	06.03.2024	Describe advantages & disadvantages of auxiliary ventilation.	
	07.03.2024	Describe methods of pressure survey using gauge and pitot tube with manometer.	
10TH	11.03.2024	Describe methods of pressure survey using barometer.	
	12.03.2024	Describe the method of measurement of cross-sectional area.	
	13.03.2024	Describe the method of velocity measurements by using anemometer.	
	14.03.2024	Describe the method of velocity measurements by using voltmeter.	
11TH	15.03.2024	Pitot- static tube and smoke & cloud method.	
	18.03.2024	Determine percentage of oxygen, methane, carbon monoxide SO ₂ & H ₂ S.	
	19.03.2024	Doubt class.	
	20.03.2024	Mock test.	
12TH	21.03.2024	Previous year question & answer solve.	
	22.03.2024	Marathon class on mine ventilation.	
	27.03.2024	Definition of natural ventilation and factors affecting natural ventilation.	
	28.03.2024	Mechanical Ventilation.	
13TH	29.03.2024	Marathon class on Mine Ventilation.	
	01.04.2024	Mine ventilation related regulation .	
	02.04.2024	Mine ventilation related regulation .	
	03.04.2024	Mine ventilation related regulation .	

PRINCIPAL
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H.O.D.