


**LESSON PLAN**  
**SESSION-SUMMER-2023**

		<b>SWAMI VIVEKANANDA SCHOOL OF ENGG. &amp; TECH. BBSR</b>		<b>REMARK</b>
<b>DISCIPLINE- MINING ENGG.</b>	<b>SEMESTER- 4TH</b>	<b>NAME OF THE FACULTY-ER. JAGAN KHATOI</b>		
<b>SUBJECT- MV</b>	<b>NO.OF CLASS ALOTTED/ WEEK-4</b>	<b>SEMESTER FROM-20.02.2023</b>		
<b>WEEK</b>	<b>DATE</b>	<b>TOPICS</b>		
<b>1ST</b>	20.02.2023	Introduction class on mine ventilation.		
	21.02.2023	Definition of natural ventilation and factors affecting natural ventilation.		
	22.02.2023	Describe the different types of Thermometer.		
	23.02.2023	Describe the different types of Barometer.		
<b>2ND</b>	24.02.2023	Describe kata thermometer.		
	25.02.2023	Describe water gauge.		
	27.02.2023	Calculate ventilation pressure by using piton static tube.		
	28.02.2023	Explain effects of heat & humidity.		
<b>3RD</b>	01.03.2023	Explain natural ventilation motive column, geothermic gradient.		
	02.03.2023	Enumerate laws of mine air friction and solve problems on above.		
	04.03.2023	Statutory provision as per CMR 2017,MMR 1961.		
	06.03.2023	Doubt class.		
<b>4TH</b>	07.03.2023	Mock test.		
	10.03.2023	Air Crossing and distribution		
	13.03.2023	Describe ventilation stopping, air crossing, ventilation door, brattice partition.		
	14.03.2023	Describe different types of ventilation.		
<b>5TH</b>	18.03.2023	Accessional & declensional ventilation.		
	20.03.2023	Homotropical & Antitropical ventilation.		
	24.03.2023	Boundary ventilation.		
	27.03.2023	Central & combined ventilation.		
<b>6TH</b>	28.03.2023	Explain splitting of air current & solve numerical problems on splitting.		
	29.03.2023	Describe air locks at pit top.		
	30.03.2023	Overall discussion.		
	03.04.2023	Mechanical Ventilation.		
<b>7TH</b>	05.04.2023	Explain construction & principle of operation of centrifugal flow fans.		
	06.04.2023	State fan laws & calculate fan efficiency and capacity.		
	08.04.2023	Explain installation of mine fan with reversal arrangement.		
	10.04.2023	Describe fan drift, fan drive, evasee and diffusers.		
<b>8TH</b>	11.04.2023	Explain fan characteristics and mine characteristics.		
	12.04.2023	Describe methods of output of mine fans.		
	13.04.2023	Describe installation, location and purpose of booster fan.		
	14.04.2023	Booster fan and its Effects		
	15.04.2023	Solve problems relating to booster fan.		
	17.04.2023	Describe systems of auxiliary ventilation.		

9TH	19.04.2023	Describe advantages & disadvantages of auxiliary ventilation.	
	20.04.2023	Describe methods of pressure survey using gauge and pitot tube with manometer.	
10TH	24.04.2023	Describe methods of pressure survey using barometer.	
	25.04.2023	Describe the method of measurement of cross-sectional area.	
	27.04.2023	Describe the method of velocity measurements by using anemometer.	
	29.04.2023	Describe the method of velocity measurements by using voltmeter.	
11TH	01.05.2023	Pitot- static tube and smoke & cloud method.	
	04.05.2023	Determine percentage of oxygen, methane, carbon monoxide SO <sub>2</sub> & H <sub>2</sub> S.	
	05.05.2023	Doubt class.	
	06.05.2023	Mock test.	
12TH	08.05.2023	Previous year question & answer solve.	
	09.05.2023	Marathon class on mine ventilation.	
	10.05.2023	Definition of natural ventilation and factors affecting natural ventilation.	
	13.05.2023	Mechanical Ventilation.	

Principal

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Dean Academics

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