SYNERGY POLYTECHNIC, BHUBANESWAR A/P- Bhimpur, Phulnakhara Dist-Khorda Odisha-752101

Website: Synergypolytechnic.com

SUBJECT-		Amazineth Gonel
Mine Ventilation	NO. OF DAYS/WEEK CLASS ALLOTED 4	DATE 16:01:27. TO 25:04.27
		NO. OF WEEKS 15
WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS
	1 st	Introduction about Natural Ventilation
	2 nd	Definition of natural ventilation and factors affecting natural ventilation.
	3 rd	Describe the different types of Thermometer.
	4 th	Describe the different types of Barometer & Describe kata
	Sec. 1	thermometer.
estate par la contractor estate	1st	Describe water gauge & Calculate
	esels	ventilation pressure by using pitot static tube.
	2 nd	Explain effects of heat & humidity .
2 nd	3rd	Explain natural ventilation motive column, geothermic gradient.
	4 th	Enumerate laws of mine air friction and solve problems on above.
Alle in the contract of the co	is the second 1st	Statutory provision as per CMR 2017,MMR 1961.
	2 ND	Introduction Air Crossing and distribution
3 rd	3rd	Describe ventilation stopping, air crossing, ventilation door, brattice partition.
	4 th	Describe different types of ventilation .
for any analysis of the same	1 st	Accessional & declensional ventilation.
4 th 10 mg + 3 mg	2 nd	Homotropal & Antitropal ventilation.
	3 rd	Explain Boundary ventilation.
	the second second 4 th	Central & combined ventilation.
in the state of th	1 st	Explain splitting of air current & solve numerical problems on
อาการ์เกรียนสำคัญ เกาะกับ เกาะ	of the section is	splitting.
5 th	2 nd	Describe air locks at pit top.
	3 rd	Describe air locks at pit top.
- \$7 - \$3 cm	for outer 4th	Introduction about Mechanical Ventilation
	1 st	Explain construction of operation of centrifugal flow fans
6 th	2 nd	Explain principle of operation of
U	Da	centrifugal flow fans

Ang/12/01/24

2) alm 124 1/24

DESCRIPTION OF THE PARTY OF THE	4 th	Calculate fan efficiency and capacity.
7 th	1 st	Explain installation of mine fan with reversal arrangement.
	2 nd	Describe fan drift, fan drive, evasee and diffusers.
	3rd	Explain fan characteristics and mine characteristics.
The state of the same of the s	4 th	Describe methods of output of mine fans.
12 400 2 700 93	1 st	Introduction about Booster fan and its Effects
8 th	2 nd	Introduction about Booster fan and its Effects
	3 rd	Describe installation, location and purpose of booster fan
Birth and addressed from the same	4 th	Describe installation of booster fan
9 th	1 st	Describe purpose of booster fan.
	2 nd	Describe location of booster fan.
	3 rd	Solve problems relating to booster fan
All	4 th	Solve problems relating to booster fan
10th	1 st	Solve problems relating to booster fan
	2 nd	About Auxiliary Ventilation
	3 rd	About Auxiliary Ventilation
	4 th	Describe systems of auxiliary ventilation.
11 th	1 st	Describe systems of auxiliary ventilation.
	2 nd	Describe advantages of auxiliary ventilation
	3 _{rd}	Describe disadvantages of auxiliary ventilation.
The interest actions	4 th	About Ventilation Survey
12 Th	1 st	About Ventilation Survey
	2 nd	Describe methods of pressure survey using barometer.
	3 rd	Describe methods of pressure survey using gauge .
	4 th	Describe methods of pressure survey using pitot tube with manometer.
13 th	1 st	Describe the method of measurement of cross-sectional area.
	2 nd	Describe the method of measurement of cross-sectional area.
	3rd	Describe the method of velocity measurements by using anemometer.

Angrator 124

8 Jahr 12/1/24

	4 th	Describe the method of velocity measurements by voltmeter.
_. 14 th	1"	Describe the method of velocity measurements by using pitot- static tube method.
	2 nd	Describe the method of velocity measurements by using smoke & cloud method.
	3 RD	Determine percentage of oxygen, methane.
	4 th	Determine percentage of carbon monoxide SO2 & H2S.
15 th	1 st	Introduction Leakage of air in Mines
	2 nd	Describe causes of leakage of air in mines.
	3 RD	Describe preventive measures of leakage of air in mines.
	4 th	Describe causes and preventive measures of leakage of air in mines.

Dept. of Mining

Synergy Polytechnic