



SYNERGY SCHOOL OF ENGINEERING, DHENKANAL

LAB LESSON PLAN

SESSION(2026-27)

DEPARTMENT OF MINING ENGINEERING LESSON PLAN(WINTER-2026)

Discipline:
MINING

Semester: 5th

Name of the Teaching faculty: BISWAMBAR MAJHI (Lecturer in Mining)

Subject:
Mh&s lab

No of
Days/Week
Class allotted: 4

from Date: 01/07/26 To Date: 05/11/26
No of weeks: 15

Week	Class Day	Topics
1st	Group1(2p)	Estimation of CH ₄ in air sample using flame safety lamp and detection by a methanometer.
	Group2(2p)	Estimation of CH ₄ in air sample using flame safety lamp and detection by a methanometer.
	Group1(2p)	EXPT-1-RECORD EVALUATION/SESSIONAL/VIVA VOCE
	Group2(2p)	EXPT-1-RECORD EVALUATION/SESSIONAL/VIVA VOCE
	Group1(2p)	Accumulation & percentage test of CH ₄ by flame safety lamp
	Group2(2p)	Accumulation & percentage test of CH ₄ by flame safety lamp
2nd	Group1(2p)	EXPT-2-RECORD EVALUATION/SESSIONAL/VIVA VOCE
	Group2(2p)	EXPT-2-RECORD EVALUATION/SESSIONAL/VIVA VOCE
	Group1(2p)	Study & use of different types of methonometer
	Group2(2p)	Study & use of different types of methonometer.

3rd

4th	Group1(2p)	EXPT-3-RECORD EVALUATION/SESSIONAL/VIVA VOCE
	Group2(2p)	EXPT-3-RECORD EVALUATION/SESSIONAL/VIVA VOCE
	Group1(2p)	Determination of CO by using CO-dectector.
	Group2(2p)	Determination of CO by using CO-dectector
5th	Group1(2p)	EXPT-4-RECORD EVALUATION/SESSIONAL/VIVA VOCE
	Group2(2p)	EXPT-4-RECORD EVALUATION/SESSIONAL/VIVA VOCE
	Group1(2p)	Determination of CO by using CO-dectector.
	Group2(2p)	Determination of CO by using CO-dectector.
	Group1(2p)	EXPT-5-RECORD EVALUATION/SESSIONAL/VIVA VOCE
	Group2(2p)	EXPT-5-RECORD EVALUATION/SESSIONAL/VIVA VOCE
	Group1(2p)	Gas analysis by(1)Orsat apparatus.

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6th	Group2(2p)	Gas analysis by (1) Orsat apparatus
	Group1(2p)	EXPT-6-RECORD EVALUATION/SESSIONAL/VIVA VOCE
	Group2(2p)	EXPT-6-RECORD EVALUATION/SESSIONAL/VIVA VOCE
7th	Group1(2p)	Haldane apparatus for gas analysis
	Group2(2p)	Haldane apparatus for gas analysis
	Group1(2p)	EXPT-7-RECORD EVALUATION/SESSIONAL/VIVA VOCE
	Group2(2p)	EXPT-7-RECORD EVALUATION/SESSIONAL/VIVA VOCE
8th	Group1(2p)	Study & uses of Konimeter
	Group2(2p)	Study & uses of Konimeter
	Group1(2p)	EXPT-8-RECORD EVALUATION/SESSIONAL/VIVA VOCE
	Group2(2p)	EXPT-8-RECORD EVALUATION/SESSIONAL/VIVA VOCE
9th	Group1(2p)	Sampling of dust by gravimetric dust sampler
	Group2(2p)	Sampling of dust by gravimetric dust sampler
	Group1(2p)	EXPT-9-RECORD EVALUATION/SESSIONAL/VIVA VOCE
	Group2(2p)	EXPT-9-RECORD EVALUATION/SESSIONAL/VIVA VOCE
10th	Group1(2p)	Study of Rescue Apparatus.
	Group2(2p)	Study of Rescue Apparatus.
	Group1(2p)	Study of Rescue Apparatus.
	Group2(2p)	Study of Rescue Apparatus.
11th	Group1(2p)	Study of Rescue Apparatus.
	Group2(2p)	Study of Rescue Apparatus.
	Group1(2p)	EXPT-10-RECORD EVALUATION/SESSIONAL/VIVA VOCE
	Group2(2p)	EXPT-10-RECORD EVALUATION/SESSIONAL/VIVA VOCE
12th	Group1(2p)	Multi gas Detector(NO _x ,H ₂ S,co,CO ₂)
	Group2(2p)	Multi gas Detector(NO _x ,H ₂ S,CO,CO ₂)
	Group1(2p)	EXPT-11-RECORD EVALUATION/SESSIONAL/VIVA VOCE
	Group2(2p)	EXPT-11-RECORD EVALUATION/SESSIONAL/VIVA VOCE

	Group1(2p)	REDEMONSTRATION OF EXPERIMENTS/SESSIONAL/VIVA VOCE
	Group2(2p)	REDEMONSTRATION OF EXPERIMENTS/SESSIONAL/VIVA VOCE
	Group1(2p)	REDEMONSTRATION OF EXPERIMENTS/SESSIONAL/VIVA VOCE

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13th	Group2(2p)	REDEMONSTRATION OF EXPERIMENTS/SESSIONAL/VIVA VOCE
	Group1(2p)	REDEMONSTRATION OF EXPERIMENTS/SESSIONAL/VIVA VOCE
14th	Group2(2p)	REDEMONSTRATION OF EXPERIMENTS/SESSIONAL/VIVA VOCE
	Group1(2p)	REDEMONSTRATION OF EXPERIMENTS/SESSIONAL/VIVA VOCE
15th	Group2(2p)	REDEMONSTRATION OF EXPERIMENTS/SESSIONAL/VIVA VOCE
	Group1(2p)	REDEMONSTRATION OF EXPERIMENTS/SESSIONAL/VIVA VOCE
	Group2(2p)	REDEMONSTRATION OF EXPERIMENTS/SESSIONAL/VIVA VOCE
	Group1(2p)	REDEMONSTRATION OF EXPERIMENTS/SESSIONAL/VIVA VOCE
	Group2(2p)	REDEMONSTRATION OF EXPERIMENTS/SESSIONAL/VIVA VOCE

Signature of Lab attendant

Biswambar Mohali
Signature of Faculty

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