

**GOVERNMENT POLYTECHNIC JAJPUR**  
**DEPARTMENT OF MINING ENGINEERING**  
**DEMONSTRATION PLAN**

Discipline: MINING	Semester: 5th	Name of the Teaching faculty: PRABHUDUTTA MISHRA
Subject: Pr.1 MINING HAZARDS & SAFETY LAB	No of Days/Week class alloted: 6	Semester from Date: 1/10/21 To Date: 31/1/22 No of weeks: 15
<b>Week</b>	<b>Class Day</b>	<b>Topics</b>
<b>1st</b>	Group1(3p)	Estimation of CH <sub>4</sub> in air sample using flame safety lamp and detection by a methanometer.
	Group2(3p)	Estimation of CH <sub>4</sub> in air sample using flame safety lamp and detection by a methanometer.
	Group1(3p)	EXPT-1-RECORD EVALUATION/SESSIONAL/VIVA VOCE
	Group2(3p)	EXPT-1-RECORD EVALUATION/SESSIONAL/VIVA VOCE
<b>2nd</b>	Group1(3p)	Accumulation & percentage test of CH <sub>4</sub> by flame safety lamp
	Group2(3p)	Accumulation & percentage test of CH <sub>4</sub> by flame safety lamp
	Group1(3p)	EXPT-2-RECORD EVALUATION/SESSIONAL/VIVA VOCE
	Group2(3p)	EXPT-2-RECORD EVALUATION/SESSIONAL/VIVA VOCE
<b>3rd</b>	Group1(3p)	Study & use of different types of methonometer.
	Group2(3p)	Study & use of different types of methonometer.
	Group1(3p)	EXPT-3-RECORD EVALUATION/SESSIONAL/VIVA VOCE

	Group1(3p)	EXPT-3 RECORD EVALUATION/SESSIONAL/VIVA VOCE
	Group3(3p)	EXPT-3 RECORD EVALUATION/SESSIONAL/VIVA VOCE
	Group1(3p)	Determination of CO by using CO detector.
	Group2(3p)	Determination of CO by using CO detector.
4th	Group1(3p)	EXPT-4 RECORD EVALUATION/SESSIONAL/VIVA VOCE
	Group2(3p)	EXPT-4 RECORD EVALUATION/SESSIONAL/VIVA VOCE
	Group1(3p)	Determination of CO by using CO-detector.
	Group2(3p)	Determination of CO by using CO detector.
5th	Group1(3p)	EXPT-5 RECORD EVALUATION/SESSIONAL/VIVA VOCE
	Group2(3p)	EXPT-5 RECORD EVALUATION/SESSIONAL/VIVA VOCE
	Group1(3p)	Gas analysis by (I) Orsat apparatus.
	Group2(3p)	Gas analysis by (I) Orsat apparatus.
6th	Group1(3p)	EXPT-6 RECORD EVALUATION/SESSIONAL/VIVA VOCE

	Group2(3p)	EXPT-6-RECORD EVALUATION/SESSIONAL/VIVA VOCE
7th	Group1(3p)	Haldane apparatus for gas analysis.
	Group2(3p)	Haldane apparatus for gas analysis.
	Group1(3p)	EXPT-7-RECORD EVALUATION/SESSIONAL/VIVA VOCE
	Group2(3p)	EXPT-7-RECORD EVALUATION/SESSIONAL/VIVA VOCE
	Group1(3p)	EXPT-7-RECORD EVALUATION/SESSIONAL/VIVA VOCE
8th	Group1(3p)	Study & uses of Konimeter.
	Group2(3p)	Study & uses of Konimeter.
	Group1(3p)	EXPT-8-RECORD EVALUATION/SESSIONAL/VIVA VOCE
	Group2(3p)	EXPT-8-RECORD EVALUATION/SESSIONAL/VIVA VOCE
9th	Group1(3p)	Sampling of dust by gravimetric dust sampler.
	Group2(3p)	Sampling of dust by gravimetric dust sampler.
	Group1(3p)	EXPT-9-RECORD EVALUATION/SESSIONAL/VIVA VOCE
	Group2(3p)	EXPT-9-RECORD EVALUATION/SESSIONAL/VIVA VOCE

10th	Group1(3p)	Study of Rescue Apparatus.
	Group2(3p)	Study of Rescue Apparatus.
	Group1(3p)	Study of Rescue Apparatus.
	Group2(3p)	Study of Rescue Apparatus.
11th	Group1(3p)	Study of Rescue Apparatus.
	Group2(3p)	Study of Rescue Apparatus.
	Group1(3p)	EXPT-10-RECORD EVALUATION/SESSIONAL/VIVA VOCE
	Group2(3p)	EXPT-10-RECORD EVALUATION/SESSIONAL/VIVA VOCE
12th	Group1(3p)	Multi gas Detector (NOx, H2S, CO, CO2)
	Group2(3p)	Multi gas Detector (NOx, H2S, CO, CO2)
	Group1(3p)	EXPT-11-RECORD EVALUATION/SESSIONAL/VIVA VOCE
	Group2(3p)	EXPT-11-RECORD EVALUATION/SESSIONAL/VIVA VOCE
	Group1(3p)	REDEMONSTRATION OF EXPERIMENTS/SESSIONAL/VIVA VOCE

13th

Group2(3p)

REDEMONSTRATION OF EXPERIMENTS/SESSIONAL/VIVA VOCE

Group1(3p)

REDEMONSTRATION OF EXPERIMENTS/SESSIONAL/VIVA VOCE

Group2(3p)

REDEMONSTRATION OF EXPERIMENTS/SESSIONAL/VIVA VOCE

14th

Group1(3p)

REDEMONSTRATION OF EXPERIMENTS/SESSIONAL/VIVA VOCE

Group2(3p)

REDEMONSTRATION OF EXPERIMENTS/SESSIONAL/VIVA VOCE

Group1(3p)

REDEMONSTRATION OF EXPERIMENTS/SESSIONAL/VIVA VOCE

Group2(3p)

REDEMONSTRATION OF EXPERIMENTS/SESSIONAL/VIVA VOCE

15th

Group1(3p)

REDEMONSTRATION OF EXPERIMENTS/SESSIONAL/VIVA VOCE

Group2(3p)

REDEMONSTRATION OF EXPERIMENTS/SESSIONAL/VIVA VOCE

Group1(3p)

REDEMONSTRATION OF EXPERIMENTS/SESSIONAL/VIVA VOCE

Group2(3p)

REDEMONSTRATION OF EXPERIMENTS/SESSIONAL/VIVA VOCE

*Prabhusutta Mishra*

Signature of Faculty