LESSON PLAN

		SWAMI VIVEKANANDA SCHOOL OF ENGG. & TECH, BBSR	REMARK
DICIDLINE	SEMESTER		
DISIPLINE-	5TH	NAME OF THE FACULTY- DR. ALOK RANJAN MAHANANDA	
MINING ENGG.	3111	SEMESTER FROM -15.09.2022	
LIVOU.	NO. OF	SEMESTER FROM F13.03.2022	
SUBJECT –	CLASS		
MH&S	ALOTTED/		
IVII ICC	WEEK-4	TOPICS	
WEEK	DATE		
1ST	15.09.2022	Introduction class about mine hazard and safety. Composition of atmospheric air & Different mine gases.	
	19.09.2022	1 1 - Hearts of 02006	
	22.09.2022	Properties and physical effects of gases. State fire damps, black damp, stink damp, white damp and after damp in mines.	
	24.09.2022	c . I Pit's working principle.	
2ND	30.09.2022	Explain gas testing by flame safety lamp by accumulation test & percentage test.	
	07.10.2022	Explain gas testing by fidnite safety famp by	
	10.10.2022	State precaution for gas testing. Describe various parts of flame safety lamp, special features.	
	14.10.2022	ti i i fil safatu lamp	
3RD	17.10.2022	State limitations of flame safety lamp. Describe gradual exudation, blower & outbursts of firedamp in U/g workings.	
	19.10.2022	Describe gradual extuation, blower & datasets	
	21.10.2022	Define incubation period. Define spontaneous heating and its causes and effects.	
	24.10.2022		
4TH	27.10.2022	Weekly test. State preventive measures against spontaneous heating.	
	29.10.2022	- 1: co/o2ti- 8 co2/o2 ratio	
	31.10.2022	Describe coal dust explosion & fire damp explosion with their causes & prevention.	
	02.11.2022	State inflammability of coal dust & fire damp.	
5TH	04.11.2022	Explain Coward's diagram.	
	05.11.2022	State prevention, suppression & treatment of dust.	
	08.11.2022	Describe sampling of dust in Mines.	
	09.11.2022	Stone dust barrier.	
6TH	11.11.2022	State sources of water in mines & its danger.	
	15.11.2022 17.11.2022	State precaution against inundation.	
	18.11.2022	Describe burnside safety boring apparatus.	
	21.11.2022	State precaution while approaching water logged area.	
7TH	22.11.2022	Describe water dams- its construction &designe.	
	24.11.2022	Explain water danger plan.	
	25.11.2022	Statutory provision for working near water body.	
OTIL		Define illumination and its units.	
8TH	28.11.2022 30.11.2022	Standards of lighting at different parts of mine as per mine regulation.	
	01.12.2022	Mock test.	
	09.12.2022	Explain the effect of noise & vibration on miners.	
OTIL	13.12.2022	Mine structures & other surface structure with respect to statutory provision.	
9TH	16.12.2022	Proto-IV, Proto-V.	
	19.12.2022	Self rescuer, Smoke helmet & Gas mask.	
10TH	21.12.2022		
	27.12.2022		
	29.12.2022		
	31.12.2022		
	02.01.2023		
11TH	03.01.2023		
	04.01.2023		
	06.01.2023		
	09.01.2023	Describe coal dust explosion & fire damp explosion with their causes & prevention	1.

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