

LESSON PLAN

SWAMI VIVEKANANDA SCHOOL OF ENGG. & TECH, BBSR

DISIPLINE- MINING ENGG.	SEMESTER 5TH	NAME OF THE FACULTY- ER. ASHOK KUMAR PANIGRAHI	REMARK
SUBJECT – U/G METAL MINE	NO. OF CLASS ALOTTED/ WEEK-4	SEMESTER FROM -15.09.2022	
WEEK	DATE	TOPICS	
1ST	15.09.2022	Introduction class on underground metal mines.	
	19.09.2022	Classify modes of entries – Adits , inclines and shafts ,applicability of entries.	
	22.09.2022	Explain formation of blocks of mineral deposit.	
	24.09.2022	Explain level interval.	
2ND	30.09.2022	Open raising method.	
	07.10.2022	Two compartment method.	
	10.10.2022	Jora raise lift.	
	14.10.2022	Long hole drilling method & Vertical Crater retreat (VCR) method.	
3RD	17.10.2022	Alimak raise climber.	
	19.10.2022	Raise borer.	
	21.10.2022	Development of Ore pass system.	
	24.10.2022	Weekly Mock test.	
4TH	27.10.2022	Give a comparative study between coal and metal Mining.	
	29.10.2022	Classify stopping methods with application and factors affecting methods of stoping.	
	31.10.2022	Preparatory arrangement for stoping.	
	02.11.2022	Describe the following methods with layout including drilling.	
5TH	04.11.2022	Blasting, transportation and supports.	
	05.11.2022	Open stoping.	
	08.11.2022	Open stoping with pillar support.	
	09.11.2022	Shrinkage stoping.	
6TH	11.11.2022	Cut & fill stoping.	
	15.11.2022	Square set stoping.	
	17.11.2022	Block caving.	
	18.11.2022	Sub-level caving.	
7TH	21.11.2022	Top slicing.	
	22.11.2022	Monthly test.	
	24.11.2022	Describe conventional methods of drifting. Find out direction gradient of drift.	
	25.11.2022	Describe drilling and blasting, support, transportation, drainage, ventilation.	
8TH	28.11.2022	Lighting arrangements, organization and supervision in mechanised method of drifting	
	30.11.2022	Explain causes and prevention of rock burst.	
	01.12.2022	Describe use of jumbo drill with air leg.	
	09.12.2022	Describe various Loading & Transportation System in u/g metal mines.	
9TH	13.12.2022	Mock test.	
	16.12.2022	Explain about L.H.D. & L.P.D.T.	
	19.12.2022	Explain about rocker shovel & spiral chutes.	
	21.12.2022	Draw points & Scrape.	
10TH	27.12.2022	Previous semester question solution.	
	29.12.2022	Cut & fill stoping.	
	31.12.2022	Square set stoping.	
	02.01.2023	Block caving.	
11TH	03.01.2023	Sub-level caving.	

04.01.2023	Top slicing.	
06.01.2023	Describe drilling and blasting, support, transportation, drainage, ventilation.	
09.01.2023	Classify modes of entries – Adits , inclines and shafts ,applicability of entries.	

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Principal
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