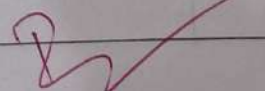


Discipline	Semester	Name of the Teaching faculty
	5 th	Lilona Poyadarkon Swain.
Subject	No. of Days for week class allotted	Semester From date: 15/09/2022 To date: 21/01/2023
THS- Undergrad		
Metal Mining	04	No. of Weeks: 15
Week	Class Day	Theory
1 st		
Access to ore body	1 st	Definition of Modes of entries
	2 nd	Classification or Model of Entry
	3 rd	Adits
	4 th	Incline
	2 nd	
	1 st	shaft.
Development in underground Metal Mine	2 nd	Formation of blocks of mineral deposit
	3 rd	level interval
	4 th	open raising method
	3 rd	
	1 st	Two Compartment method
	2 nd	Jack raise lift
	3 rd	Long hole drilling method
	4 th	
	4 th	
	1 st	Vertical crater shaft or (VCS) method.

	2 nd	VCR method
	3 rd	Alimak raise climber
	4 th	Raise / boomer
	5 th	
	1 st	Development of ore passing system.
Give a comparative study between coal and Metal Mining	2 nd	Definition of coal mining
	3 rd	Definition of metal mining
	4 th	Comparison between coal and metal mining
	5 th	
Stopping method	1 st	Definition of stopping methods
	2 nd	Classification of stopping methods
	3 rd	Various types of stopping methods with application and factors affecting methods of stopping
	4 th	Open Stopping
	5 th	Open stopping with pillar support
	6 th	- do -
	7 th	Shrinkage stoping
	8 th	- do -

8th	1st	cut & bill stop etc	
	2nd	- do -	
	3rd	Square set stop etc	
	4th	block cavity	
9th	1st	sub-level cavity	
	2nd	- do -	
	3rd	TOP SLICING	
stone drifting	1st	conventional method of drifting	
	10th	1st	Direction gradient of drift
		2nd	Definition of mechanised method of drifting
		3rd	Drilling and blasting, support in mechanised method of drifting
		4th	transportation, drainage in mechanised method of drifting
11th	1st	ventilation and lighting arrangements in mechanised method of drifting	
	2nd	organization and supervision in mechanised method of drifting	



Rock Burst	3 rd	Definition of Rock Burst
	4 th	causes of rock Burst
12 th	1 st	- do -
	2 nd	Prevention of rock burst
	3 rd	- do -
	4 th	- do -
13 th		
Face mechanization	1 st	Definition of Face mechanization
	2 nd	Definition of Jumbo drill
	3 rd	use of Jumbo drill with air leg
	4 th	various loading & transportation system.
14 th	1 st	L.H.D.
	2 nd	L.P.D. (Low Profile Dump Truck)
	3 rd	- do -
	4 th	rockers sovel
15 th		
	1 st	- do -
	2 nd	Scooper

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3rd

SPÉcial chutes and drop points

After

— 20 —