GOVERNMENT POLYTECHNIC JAJPUR

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DEPARTMENT OF MINING ENGINEERING				
LESSON PLAN				
Discipline:		LESSON PLAN		
MINING	Semester: 5th	Name of the Teaching faculty: Prabhudutta Mishra		
Subject:	No of	Semester from Date: 01/08/23 To Date: 30/11/23		
UNDERGR	Days/Week	No of weeks: 15		
OUND	class alloted:	31		
METAL	4			
MINING				
Week	Class Day	Topics		
1st	1st	Classify modes of entries – Adits, applicability of entries.		
	2nd 3rd	Classify modes of entries – inclines, applicability of entries.		
	4th	Classify modes of entries – shafts ,applicability of entries.		
	1st	Classify modes of entries – shafts ,applicability of entries.		
	2nd	Explain formation of blocks of mineral deposit.		
2nd	3rd	Explain level interval.		
	4th	Explain level interval.		
	1st	Describe Open raising method		
	2nd	Describe Two compartment method Describe Two compartment method		
3rd	3rd	Describe I wo compartment method Describe Jora raise lift.		
	4th	Describe Jora raise Int.		
	1st	Describe Long hole drilling method./Vertical Crater retreat (VCR)		
		method		
441	2nd	Describe Long hole drilling method./Vertical Crater retreat (VCR)		
4th		method		
	3rd	CLASS TEST-I		
	4th	Describe Alimak raise climber		
	1st	Describe Alimak raise climber		
5th	2nd	Describe Raise borer.		
501	3rd	Describe Raise borer.		
	4th	Describe Development of Ore passe system.		
	1st	Describe Development of Ore passe system.		
6th	2nd	comparative study between coal and metal Mining.		
	3rd	Classify stoping methods with application		
	4th	Factors affecting methods of stopping.		
7th -	1st	Preparatory arrangement for stoping.		
	2nd	Describe the Open stoping methods with layout.		
		Describe the Open stoping methods with layout.		
	4th	Describe the Open stoping methods with layout.		
	1st I	Describe the Open stoping methods with layout.		
		INTERNAL-I		
	3rd [Describe the Open stoping with pillar support.		
	4th	Describe the Open stoping with pillar support.		
-	1st [Describe the Shrinkage stoping methods with layout.		
9th	2nd E	Explain Cut & fill stoping methods with layout.		
	3rd E	Explain Cut & fill stoping methods with love t		

Explain Cut & fill stoping methods with layout.

3rd

4th Explain Square set stoping methods with layout. 2nd Explain Square set stoping methods with layout. 3rd Explain in Square set stoping methods with layout. 4th Explain Top slicing methods with layout. 1st Describe conventional methods of drifting. Find out direction gradient of drift. 2nd Describe described in the province of drifting. Province of drifting. 3rd Describe lighting arrangements, organization and supervision in mechanised method of drifting. 4th Explain causes and prevention of rock burst. 1st CLASS TEST-II 2nd Explain causes and prevention of rock burst. 3rd Describe use of jumbo drill with air leg. 4th Describe use of jumbo drill with air leg. 1st Describe use of jumbo drill with air leg. 2nd DescribeLoading & Transportation System of L.H.D. DescribeLoading & Transportation System of L.P.D.T.(Low Profile Dump Truck) 3rd Describe Loading & Transportation System of foraw points 1st Describe Loading & Transportation System of foraw points 1st Describe Loading & Transportation System of Graw points 2nd Describe Loading & Transportation System of Graw points 1st REVISION/DOUBT CLEARING CLASS 1st REVISION/DOUBT CLEARING CLASS 3rd REVISION/DOUBT CLEARING CLASS 1st REVISION/DOUBT CLEARING CLASS 3rd Revision/Doubt Clearing Resources 1st Revision/Doubt Clearing Resources 3rd Revision/Doubt Clearing Resources 4rd Revision/Doubt Clearing Resources 4rd Revision/Doubt Clearing Resources 4rd Revision/Doubt Clearing	/		
2nd		4th	Explain Square set stoping methods with layout.
10th 4th Explain Sub-level caving methods with layout. 1st Describe conventional methods of drifting. Find out direction gradient of drift. 2nd Describe drilling and blasting, support, transportation, drainage, ventilation in mechanised method of drifting. 3rd Describe lighting arrangements, organization and supervision in mechanised method of drifting. 4th Explain causes and prevention of rock burst. 1st CLASS TEST-II 2nd Explain causes and prevention of rock burst. 2th Describe use of jumbo drill with air leg. 4th Describe use of jumbo drill with air leg. 2nd DescribeLoading & Transportation System of L.H.D. 2nd DescribeLoading & Transportation System of L.P.D.T.(Low Profile Dump Truck) 3rd Describe Loading & Transportation System of spiral chutes 1st Describe Loading & Transportation System of spiral chutes 1st Describe Loading & Transportation System of spiral chutes 1st Describe Loading & Transportation System of spiral chutes 1st Describe Loading & Transportation System of spiral chutes 1st Describe Loading & Transportation System of Scraper. 1st Describe Loading & Transportation System of Spiral chutes 1st Revision/DouBT CLEARING CLASS 2nd INTERNAL-II 4th REVISION/DOUBT CLEARING CLASS 2nd REVISION/DOUBT CLEARING CLASS 2nd REVISION/DOUBT CLEARING CLASS 2nd REVISION/DOUBT CLEARING CLASS 3rd REVISION/DOUBT CLEARING CLASS 4th REVISION/DOUBT CLEARING CLASS 3rd REVISION/DOUBT CLEARING CLASS 4th REVISION/DOUBT CLEARING CLASS 4dh REVIS	10th	1st	Explain Square set stoping methods with layout.
Signature Sub-level caving methods with layout.		2nd	Explain Block caving methods with layout.
Secribe Loading & Transportation System of LH.D.		3rd	Explain Sub-level caving methods with layout.
11th 2nd Describe conventional methods of drifting, Find out direction gradient of drift. 2nd ventilation in mechanised method of drifting. 3rd Describe lighting arrangements, organization and supervision in mechanised method of drifting. 1th Explain causes and prevention of rock burst. 1th CLASS TEST-II 2nd Explain causes and prevention of rock burst. 3rd Describe use of jumbo drill with air leg. 4th Describe use of jumbo drill with air leg. 2nd Dump Truck) 3rd DescribeLoading & Transportation System of L.H.D. 2nd Dump Truck) 3rd Describe Loading & Transportation System of L.P.D.T.(Low Profile Dump Truck) 4th Describe Loading & Transportation System of spiral chutes 1st Describe Loading & Transportation System of spiral chutes 1st Describe Loading & Transportation System of spiral chutes 2nd Describe Loading & Transportation System of Spiral chutes 1st Describe Loading & Transportation System of Spiral chutes 1st Describe Loading & Transportation System of Spiral chutes 2nd Describe Loading & Transportation System of Spiral chutes 1st Revision/DoubT clearing Class 2nd INTERNAL-II 4th Revision/DoubT clearing Class 3rd Revision/DoubT clearing Class 4th Revision/DoubT clearing Class 3rd Revision/DoubT clearing Class 1st Revision/DoubT clearing Class 2nd Revision/DoubT clearing Class 3rd Revision/DoubT clearing Class 4th Revision/DoubT clearing Class 3rd Revision/DoubT clearing Class 4th Revision/DoubT clearing Class 4th Revision/DoubT clearing Class 3rd Revision/DoubT clearing Class 4th Revision/DoubT clearing		4th	
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