

Dicipline: <u>mining</u>		Semester: <u>8th</u>	Name of the Teaching Faculty: <u>satyajit mahapatra</u>	
Subject: <u>Mineral Dressing</u>		No of Days/Week Class Allotted: _____	Semester From date: <u>13/02/23</u> To date: <u>28/02/23</u>	No. of Weeks: _____
WEEK	Class Day	Theory Topics		
1st	1st	Introduction of mineral dressing.		
	2nd	describe the objective of mineral dressing in O.C. mines.		
	3rd	describe the objective of mineral dressing in O.C. mines.		
	4th	scope of application of mineral dressing in O.C. mines.		
	5th			
2nd	1st	scope of application of mineral dressing in U.C. mines.		
	2nd	Unit operations of crusher.		
	3rd	explain the principle of Blake crusher.		
	4th	explain the principle of wedge jaw crusher.		
	5th			
3rd	1st	working principle of gyratory crusher.		
	2nd	working principle of cone crusher.		
	3rd	explain the working principle of roll crusher.		
	4th	explain the principle of ball mill operation.		
	5th			

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WEEK	Class Day	Theory Topics
4 th	1st	explain open circuit grinding in crusher
	2nd	explain close circuit grinding in crusher
	3rd	explain dry & wet grinding,
	4th	explain the procedure for size analysis in screening.
	5th	
5 th	1st	standard screening techniques used in mines.
	2nd	explain the principle of industrial screening & types of screening.
	3rd	explain the operation of classifier & their application,
	4th	Discuss the general principle of wet type table.
	5th	
6 th	1st	explain operation of wet type table.
	2nd	Develop elementary notes regarding the operation tips.
	3rd	" "
	4th	explain heavy media separation.
	5th	

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WEEK	Class Day	Theory Topics		
7 th	1st	Describe fundamental principle of heavy media separation		
	2nd	" "		
	3rd	Change process of heavy media separation.		
	4th	Explain method of floatation.		
	5th			
8 th	1st	Comprehend elementary principle of froth floatation.		
	2nd	Practical utility of frothers, collection, modifiers & depressants.		
	3rd	Describe & illustrate floatation cell.		
	4th	" "		
	5th			
9 th	1st	Explain magnetic separators.		
	2nd	Explain electrostatic separators.		
	3rd	Principle of magnetic separators.		
	4th	Principle of electrostatic separators.		
	5th			

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WEEK	Class Day	Theory Topics
10th	1st	Application of separators in mineral dressing
	2nd	
	3rd	
	4th	DS
	5th	
	1st	
	2nd	
	3rd	
	4th	
	5th	
	1st	
	2nd	
	3rd	
	4th	
	5th	