DEPARTMENT OF MINING ENGINEERING
LESSON PLAN

Discipline: MINING	Semester:5th	Name of the Teaching faculty	BINAY MOHAPATRA
Subject: UNDERG-ROUND METAL MINING	No of Days/Week class alloted 4	Semester from Date:01/08/23 No of weeks:15	To Date:9/12/23

Week	Class Day	Topics
1st	1st	i)Lesson plan,Syllabus ii)Importance of this Course,Course Outcomes ii)Exams,Class Tests,Introduction to the course
	2nd	Classify modes of entries-Adits,applicability of entries
	3rd	Classify modes of entries-inclines ,applicability of entries
	4th	Classify modes of entries-shafts ,applicability of entries
2nd	1st	Explain formation of blocks of mineral deposit
	2nd	Explain level interval
	3rd	Explain level interval
	4th	Describe Open raising method
3rd	1st	Describe Two compartment method
	2nd	Describe Two compartment method
	3rd	Describe Jora raise lift
	4th	Describe Jora raise lift
4th	1st	Describe Long hole drilling method./Vertical Crater retreat (VCR method
	2nd	Describe Long hole drilling method./Vertical Crater retreat (VCR) method
	3rd	Describe Alimak raise climber
	4th	Describe Alimak raise climber
5th	1st	Describe Raise borer
	2nd	INTERNAL-I
	3rd	Describe Raise borer
	4th	Describe Development of Ore passe system
6th	1st	Describe Development of Ore passe system
	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
	3rd	Describe the Open stoping methods with layout
	4th	Describe the Open stoping methods with layout
8th	1st	Describe the Open stoping methods with layout
	2nd	Describe the Open stoping with pillar support
	3rd	Describe the Open stoping with pillar support
	4th	Describe the Shrinkage stoping methods with layout
O+h	1st	Explain Cut &fill stoping methods with layout
	2nd	Explain Cut &fill stoping methods with layout