

## Academic Lesson Plan of Summer 2024

Department : MINING ENGG.	Semester : 6TH	Name of the Teaching Faculty : M. ROUT
Subject : MINING GEOLOGY-II	No. of Days/per week class allotted : 4Period/week	Semester from : 16TH JANARY 2024
		No of Weeks : 15 Weeks
		Topic to be covered :
WEEK	DAYS	TOPIC
1st Week	1st	Describe the principles of stratigraphy.
	2nd	Describe the principles of stratigraphy.
	3rd	Describe the Geological time scale.
	4th	Describe the Geological time scale.
2nd Week	1st	Describe the stratigraphic sequence, Lithology, Distribution and Economic Mineral deposits of Iron Ore series.
	2nd	Describe the stratigraphic sequence, Lithology, Distribution and Economic Mineral deposits of Iron Ore series.
	3rd	Describe the stratigraphic sequence, Lithology, Distribution and Economic Mineral deposits of cuddpah super group.
	4th	Describe the stratigraphic sequence, Lithology, Distribution and Economic Mineral deposits of cuddpah super group.
3rd Week	1st	Describe the stratigraphic sequence, Lithology, Distribution and Economic Mineral deposits of vindhyan super group.
	2nd	Describe the stratigraphic sequence, Lithology, Distribution and Economic Mineral deposits of vindhyan super group.
	3rd	Describe the stratigraphic sequence, Lithology, Distribution and Economic Mineral deposits of gondwana super group.
	4th	Describe the stratigraphic sequence, Lithology, Distribution and Economic Mineral deposits of gondwana super group.
4th Week	1st	Describe the different ranks of Coal.
	2nd	Describe different Grades of Coal like A,B,C,D.
	3rd	Describe different Grades of Coal like A,B,C,D.
	4th	Describe the various theories accounting for the origin of code.
5th Week	1st	Describe the various theories accounting for the origin of code.
	2nd	Describe Various Imortant Lower Gondwana Coal field of India.
	3rd	Describe Various Imortant Lower Gondwana Coal field of India.
	4th	Describe the Organic and Inorganic theories accounting for the Origin of Petroleoum.
6th Week	1st	Describe the Organic and Inorganic theories accounting for the Origin of Petroleoum.
	2nd	Define Oil Pool and Oil Trap.
	3rd	Describe Process of accumulation of Oil.
	4th	Describe Process of accumulation of Oil.

WEEK	DAYS	TOPIC
7th Week	1st	Describe Favorable conditions for accumulation of Oil.
	2nd	Describe different Important Oil Fields in India
	3rd	Describe different Important Oil Fields in India
	4th	Define Prospecting. Differentiate between Prospecting and Exploration.
8th Week	1st	Differentiate between Prospecting and Exploration.
	2nd	Differentiate between Prospecting and Exploration.
	3rd	Use of Multi shot camera for the Borehole direction test.
	4th	Enumerate and Describe various criteria for Geological Exploration
9th Week	1st	Describe various method of Geophysical Prospecting.
	2nd	Describe various method of Geophysical Prospecting.
	3rd	Explain Geochemical Prospecting.
	4th	Explain Geochemical Prospecting.
10th Week	1st	Differentiate between Biochemical and Geobotanical Prospecting.
	2nd	Differentiate between Biochemical and Geobotanical Prospecting.
	3rd	Define Ore and Gangue.
	4th	Define Tenor and Grade.
11th Week	1st	Describe the mineralogy, mode of occurrence of Iron Ore deposits in India.
	2nd	Describe the distribution and use of Iron Ore deposits in india.
	3rd	Describe the Mineralogy, mode of occurrence and description of Chromite deposit.
	4th	Describe the Mineralogy, mode of occurrence and description of Chromite deposit.
12th Week	1st	Describe the Mineralogy, mode of occurrence and description of Chromite deposit.
	2nd	Describe the Mineralogy, mode of occurrence and description of Cupper deposit.
	3rd	Describe the Mineralogy, mode of occurrence and description of Cupper deposit.
	4th	Describe the Mineralogy, mode of occurrence and description of Cupper deposit.
13th Week	1st	Describe the Mineralogy, mode of occurrence and description of Lead and Zinc deposit in India and the use of these materials.
	2nd	Describe the Mineralogy, mode of occurrence and description of Lead and Zinc deposit in India and the use of these materials.
	3rd	Describe the Mineralogy, mode of occurrence and description of Lead and Zinc deposit in India and the use of these materials.
	4th	UNFC( United Nation Framework of Classification) code of Classification of reserves.

WEEK	DAYS	TOPIC
14th Week	1st	Define Sampling, Outline the Method of Preparation of Samples for Assay.
	2nd	Explain Sampling.
	3rd	INTERNAL
	4th	Privious year Question Discussion.
15th Week	1st	Revision and Doubt clearing Class.
	2nd	Revision and Doubt clearing Class.
	3rd	Revision and Doubt clearing Class.
	4th	Revision and Doubt clearing Class.

*Mandisha Rast*  
Signature of the faculty

*S. H. Talwar*  
Signature of the Principal