

Dicipline:	mining	Semester: 6th	Name of the Teaching Faculty: Dharmasith Benera	
Subject:	Mine Geology-II	No of Days/Week Class Allotted: _____	Semester From date: 13/02/23 To date: 23/03/23	No. of Weeks: _____
WEEK	Class Day	Theory Topics		
1st	1st	stratigraphy		
	2nd	describe the principle of stratigraphy		
	3rd	describe the geological timescale,		
	4th	more on stratification,		
	5th			
2nd	1st	Historical Background		
	2nd	successional of strata,		
	3rd	More on Rock units,		
	4th	Unconformities.		
	5th			
3rd	1st	Time in stratigraphy		
	2nd	Sea-level change		
	3rd	sequence stratigraphy		
	4th	some terminology for important concepts,		
	5th			

WEEK	Class Day	Theory Topics
4 th	1st	fossil fuel
	2nd	describe in coal
	3rd	describe the different ranks of coal,
	4th	describe different grades of coal like A, B, C, D.
	5th	
5 th	1st	describe the various theories accounting for the origin of coal,
	2nd	describe various important low energy and high energy coal fields of India,
	3rd	describe the petroleum,
	4th	describe the organic & inorganic theories accounting for the origin of petroleum.
	5th	
6 th	1st	define oil pool and oil trap.
	2nd	describe process of accumulation of oil
	3rd	describe favorable conditions for accumulation of oil.
	4th	describe different important oil fields in India.
	5th	

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Subject:		No of Days/Week Class Allotted: _____	Semester From date: _____ To date _____	No. of Weeks:
WEEK	Class Day	Theory Topics		
7 th	1st	prospecting and exploration.		
	2nd	Define prospecting		
	3rd	Differentiate between prospecting and exploration.		
	4th	use of multi shot camera for borehole direction test.		
	5th			
8 th	1st	Enumerate and describe various Criteria for geological exploration.		
	2nd	Describe various methods of Geographical prospecting.		
	3rd	Explain Geochemical prospecting.		
	4th	Differentiate between biogeochemical and geo botanical prospecting.		
	5th			
9 th	1st	Necessary preliminaries to Actual field Exploration.		
	2nd	General Guidelines.		
	3rd	Methodology		
	4th	Aerial photography.		
	5th			

Theory Topics

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BOOKS & STATIONERY
 Line: _____
 Object: _____

WEEK	Class Day	Topic
10 th	1st	Economic Geology
	2nd	Define ore and gangue
	3rd	Define tenor and grade
	4th	Describe the mineralogy, mode of occurrence, distribution and use of iron ore deposits in India.
	5th	
11 th	1st	Describe the mineralogy, mode of occurrence distribution and use of chromite deposits In India.
	2nd	= Do =
	3rd	Describe the mineralogy, mode of occurrence and distribution of copper deposits in India and uses of this metal.
	4th	= Do =
	5th	
12 th	1st	Describe the mineralogy, mode of occurrence distribution of lead and zinc deposits in India and the uses of these metals.
	2nd	= Do =
	3rd	UNFC code of classification of reserves
	4th	= Do =
	5th	

WEEK _____

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ject:	No of Days/Week Class Allotted: _____	Semester From date: _____ To date _____		No. of Weeks:

WEEK	Class Day	Theory Topics
13 th	1st	Sampling
	2nd	Define sampling, outline the method of preparation of samples for assay
	3rd	= DO =
	4th	Explain sampling.
	5th	
14 th	1st	Describe the different methods of sampling as outlined by Bureau of Indian Standards
	2nd	= DO =
	3rd	Drill / Borehole sampling
	4th	Bulk sampling
	5th	
15 th	1st	chip sampling
	2nd	Grab sampling / muck sampling
	3rd	Wagon sampling
	4th	Unconsolidated sampling.
	5th	<u>DS</u>

