



## ARYAN SCHOOL OF ENGINEERING & TECHNOLOGY

Discipline:	Mining Engg.	Semester:	6th	Name of the Teaching Faculty	Subhrajit	Venkata	
Subject:	Mine Geology-II	No of Days/Week Class Allotted:		Semester From date:	10/03/22	To date	18/06/22
				No. of Weeks:			

WEEK	Class Day	Theory Topics
From 14/03/22 to 19/03/22	1st	Introduction to mine Geology
	2nd	principles of stratigraphy
	3rd	Geological time scale
	4th	Stratigraphic sequence, lithology, distribution.
	5th	
From 21/03/22 to 26/03/22	1st	Economic mineral deposits of Iron ore series.
	2nd	———— do ————
	3rd	Cuddpah Supergroup
	4th	Distribution, Lithology, mineral economics.
	5th	
From 28/03/22 to 02/04/22	1st	Vindhyan Supergroup
	2nd	mineral economics, Stratigraphy sequence.
	3rd	Gondwana Super group
	4th	Distribution, Important feature; classification.
	5th	

19-03-22			2nd	3rd	4th	5th
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WEEK	Class Day	Theory Topics
From 04/04/22 to 09/04/22	1st	Introduction class to Fossil fuels
	2nd	Coal, different ranks of coal
	3rd	Different grades of coal like A, B, C, D.
	4th	Various theories accounting for the origin of coal.
	5th	
From 11/04/22 to 16/04/22	1st	Various Important lower Gondwana coalfields of India.
	2nd	Petroleum, Rock oil, crude oil
	3rd	Organic & Inorganic theories accounting for the origin of petroleum?
	4th	Definition of oil pool & oil trap
	5th	
From 18/04/22 to 23/04/22	1st	Describe the processes of accumulation of oil.
	2nd	Describe different important oil fields in India
	3rd	Dogbad oil fields, Nahorkatiya oil field, Bombay basin.
	4th	do
	5th	

19-03-22

3rd  
4th  
5th



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Discipline:	Semester:	Name of the Teaching Faculty	
Subject:	No of Days/Week Class Allotted:	Semester From date: _____ To date _____	No. of Weeks:

WEEK	Class Day	Theory Topics
From 25/04/22 to 30/04/22	1st	Define prospecting
	2nd	Describe various criteria for geological - exploration.
	3rd	Various methods of Geological prospecting.
	4th	do
	5th	
	1st	Describe various methods of Geophysical prospecting.
	2nd	Geothermal & Electric method
	3rd	Explain Geochemical prospecting
	4th	Differentiate bet <sup>n</sup> Biogeochemical & Geobotanical prospecting.
	5th	
	1st	Economy Geology (Introduction)
	2nd	Define ore & gangue
	3rd	Define tenor & grade
	4th	Describe the mineralogy, mode of occurrence distribution & use of Iron ore.
	5th	

From 14-05-22 to 19-03-22

WEEK	Class Day	Theory Topics
	1st	Describe the mineralogy, mode of occurrence & description of chromites deposits in India.
	2nd	Describe the mineralogy, mode of occurrence & distribution of copper deposits in India.
	3rd	Economic uses of copper ore.
	4th	Describe the mineralogy, mode of occurrence, distribution of lead & zinc deposits in India.
	5th	
	1st	Distribution in India & Economic uses.
	2nd	Sampling, method of preparation of samples for assay.
	3rd	Describe the different methods as outlined by Bureau of Indian Standard.
	4th	Salting of samples, Intentional Salting.
	5th	
	1st	Prevention of salting, Accidental salting.
	2nd	Chief Fossil, method of preparation of sample for assay.
	3rd	Sampling types, Core drill sample
	4th	Reverse circulating Drilling.
	5th	