

GOVERNMENT POLYTECHNIC JAIPUR

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DEPARTMENT OF MINING ENGINEERING

LESSON PLAN

Discipline: MINING	Semester: 6th	Name of the Teaching faculty: SOMESH JENA	
Subject: MINING GEOLOGY- II	No of Days/Week class alloted: 4	Semester from Date: 16/01/24 No of weeks: 15	To Date: 26/04/24
Week	Class Day	Topics	
1st	1st	Describe the principles of stratigraphy.	
	2nd	Describe the geological time Scale.	
	3rd	Describe the stratigraphic sequence, lithology og iron ore series	
	4th	Distribution economic mineral deposits of Iron Ore series	
2nd	1st	Describe the stratigraphic sequence, lithology of Cuddpah supergroup .	
	2nd	Distribution & economic mineral deposits of Cuddpah Supergroup.	
	3rd	Describe the stratigraphic sequence, lithology of Vindhyan supergroup.	
	4th	Distribution & economic mineral deposits of Vindhyan Supergroup.	
3rd	1st	Describe the stratigraphic sequence, lithology of Gondwana supergroup.	
	2nd	Distribution & economic mineral deposits of Gondwana Supergroup.	
	3rd	Describe the different ranks of coal.	
	4th	Describe different grades of coal like A,B,C,D.	
4th	1st	Describe the various theories accounting for the origin of coal.	
	2nd	Describe various important lower gondwana Coalfields of India.	
	3rd	CLASS TEST-1	
	4th	Describe the organic & inorganic theories accounting for the origin of petroleum.	
5th	1st	Define oil pool & 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.	
6th	1st	Define prospecting	
	2nd	Differentiate between prospecting & exploration.	
	3rd	Differentiate between prospecting & exploration.	
	4th	Use of multi shot camera for borehole direction test.	
7th	1st	Use of multi shot camera for borehole direction test.	
	2nd	Enumerate & describe various criteria for geological exploration.	
	3rd	Enumerate & describe various criteria for geological exploration.	
	4th	Describe various methods of Geophysical prospecting.	
8th	1st	Describe various methods of Geophysical prospecting.	
	2nd	INTERNAL-1	
	3rd	Explain Geochemical prospecting.	
	4th	Explain Geochemical prospecting.	
9th	1st	Differentiate between biogeochemical & geo botanical prospecting.	
	2nd	Differentiate between biogeochemical & geo botanical prospecting.	

