GOVERNMENT POLYTECHNIC JAJPUR

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DEPARTMENT OF MINING ENGINEERING

	1,8%	LESSON PLAN
Discipline: MINING	Semester: 6th	Name of the Teaching faculty: SOMESH JENA
Subject: MINING GEOLOGY-	No of Days/Wee k class	Semester from Date: 04/02/25 To Date: 17/05/25 No of weeks: 15
II	alloted: 4	
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.
Jiu [3rd	Describe the different ranks of coal.
	4th	Describe different grades of coal like A,B,C,D.
	1st	Describe the various theories accounting for the origin of coal.
4th	2nd	Describe various important lower gondwana Coalfields of India.
'	3rd	Describe the organic & inorganic theories accounting for the origin of petroleum.
	4th	Describe the organic & inorganic theories accounting for the origin of petroleum.
	1st	Define oil pool & oil trap, Describe process of accumulation of oil.
5th	2nd	INTERNAL-1
	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.
	1st	Use of multi shot camera for borehole direction test.
7th		Enumerate & describe various criteria for geological exploration.
-		Enumerate & describe various criteria for geological exploration.
		Describe various methods of Geophysical prospecting.
8th		Describe various methods of Geophysical prospecting.
		Describe various methods of Geophysical prospecting.
		Explain Geochemical prospecting.
		Explain Geochemical prospecting.
9th		Differentiate between biogeochemical & geo botanical prospecting.
		Differentiate between biogeochemical & geo botanical prospecting.
	3rd [Define ore & gangue.Define tenor & grade.

Г	446	CLACC TEST
	4th C	CLASS TEST Describe the mineralogy, mode of occurrence of iron ore deposits in India .
10th	1st [Describe the mineralogy, mode of occurrence of iron ore deposits in India.
	2nd [Describe the mineralogy, mode of occurrence of Chromites ore deposits in India.
	3rd I	Describe the mineralogy, mode of occurrence of Chromite ore deposits in India .
	4th	Describe the mineralogy, mode of occurrence of contract denosits
11th -	1st	Describe the mineralogy, mode of occurrence of copper deposits
	2nd	Describe the mineralogy, mode of occurrence of copper deposits
	3rd	Distribution of copper deposit in india &uses of this metal
	4th	Describe the mineralogy, mode of occurrence of lead & zinc deposits in india.
	1st	Distribution of lead & zinc deposit in india &uses of this metal.
12th	2nd	UNFC (United Nation Framework of Classification) code of classification of reserves.
	3rd	UNFC (United Nation Framework of Classification) code of classification of reserves.
	4th	UNFC (United Nation Framework of Classification) code of classification of reserves.
	1st	UNFC (United Nation Framework of Classification) code of classification of reserves.
421	2nd	Define sampling, outline the method of preparation of samples for assay.
13th	3rd	Define sampling, outline the method of preparation of samples for assay.
	4th	Explain sampling
	1st	Describe different methodsof sampling as outlined by Bureau of IndianStandards(BIS)
	2nd	Describe different methodsof sampling as outlined by Bureau of IndianStandards(BIS)
14th	3rd	INTERNAL 2
	4th	PREVIOUS YEAR QUESTION DISCUSSION
	1st	REVISION/DOUBT CLEARING CLASSES/REMEDIAL CLASSES
	2nd	REVISION/DOUBT CLEARING CLASSES/REMEDIAL CLASSES
15th	3rd	REVISION/DOUBT CLEARING CLASSES/REMEDIAL CLASSES
	4th	REVISION/DOUBT CLEARING CLASSES/REMEDIAL CLASSES
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		RECOMMENDED BOOKS
	Name of	Title of Books
SL NO.	Author	
1	M.S.	Geology of India & Burma
	Krishnan	
2	N.L.Sharma	All littleddection to Beereby or search
	K.S.V.Ram	Coolegy of notroloum
3	A.I.Levorsei	Coolegies prospecting & Exploration
4	V.K.Kreite	Ceological prospecting a Experience
6	A.K.Sen,	A Hand Book of economic geology
	P.K.Guha	
	R.K. Sinha	
	N.L.Sharm	a

signature of Faculty