Discipline: Mining			Semester:	(Summer-2023) Name of the Teaching Faculty:
Engineering			6th semester	Sabyasachi Biswal (PTGF)
Subject: Mine Geology - II Sub code: Th.2			No of days /week class allotted:02/week	Semester from Date: 14/02/2023 to 23/05/2023 No of weeks: 16
Month	Week	No of periods available	Class Day	Theory topics to be covered
FEBRUARY	1 st	02P	15.02.2023	Briefing about the Syllabus. Introduction / Most important topic taught in last semester
			16.02.2023	Fossil fuels Coal & the different ranks of coal. 1)Peat 2)Lignite 3)Sub bituminous 4)Bituminous 5)Anthracite Different grades of coal viz.A,B,C,D
	2 nd	02P	23.02.2023	Chemical properties of coal. 1)moisture content 2)volatile matter 3)fixed carbon 4)fuel ratio Chemical properties of coal
			23.02.2023	5)ash content 6)sulfur content 7)calorific value
	3rd	NA	NA	NA
	4 th	02P	01.03.2023	In-situ theories accounting for the origin of coal
MARCH			02.03.2023	Drift theories accounting for the origin of coal
	5 th	01P	09.03.2023	Description of different lower gondwana coal fields of India.
	6 th	02P	15.03.2023	Petroleum and its composition. Organic theories accounting for the origin of petroleum. Inorganic theories accounting for the origin of petroleum
	7 th	02P	22.03.2023	Migration of petroleum. Oil traps, its formation and types of oil traps. Oil pool and its formation
			23.03.2023	Process of accumulation of oil. Description of different important oil fields of India.
	8 th	01P	29.03.2023	Sampling and assaying
APRIL	9th	02P	05.04.2023	Methods of preparation of sample assay TYPES OF SAMPLING • Grab Sampling • Chip Sampling • Channel Sampling
			06.04.2023	Monthly Test-01

	10 th	02P	12.04.2023	Monthly test results and discussion. Doubt		
				Clearing Class.		
	1		13.04.2023	TYPES OF SAMPLING		
				Bulk Sampling		
				Dump Sampling		
				Trench Sampling		
	11 th	02P	19.04.2023	Different methods of sampling outlined by BIS		
			20.04.2023	Prospecting and exploration		
				Definition of Prospecting and exploration & difference		
		02P		between exploration and prospecting.		
	12 th		26.04.2023	Internal Assessment/Class Test		
May			27.04.2023	(AS PER SCTE & VT ACADEMIC CALENDER)		
	13 th	02P	03.05.2023	Geological exploration. Use of Multishot camera for Borehole		
				direction test.		
			04.05.2023	Description of various criteria for geological exploration		
	14 th	02P	10.05.2023	Geophysical prospecting and Different methods of		
				geophysical prospecting.		
			11.05.2023	Monthly Test-02		
	15 th	02P	17.05.2023	Different methods of geophysical prospecting.		
			18.05.2023	Geo chemical prospecting and methods.		
	16 th			Bio-geochemical & Geo botanical Prospecting.		
		NA	NA	NA		
			VERY SIMILAR TEST/MOCK TEST			

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