		114077		ESSON PLAN
Discipline: Drilling Engineering Subject: Engineering Geology-II Sub code: TH.3		Semester: 4th semester No of days /week class allotted:02		Name of the Teaching Faculty: Sabyasachi Biswal (PTGF) Semester from Date: 14/02/2023 to 23/05/2023 No of weeks: 16
FEBRUARY	1 st	NA	NA	NA
	2 nd	02P	20.02.2023	Briefing about the Syllabus. Introduction / Most important topic taught in last semester
			20.02.2023	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
	3rd	2P	27.02.2022	Chemical properties of coal. 1)moisture content 2)volatile matter 3)fixed carbon 4)fuel ratio
			27.02.2022	Chemical properties of coal 5)ash content 6)sulfur content 7)calorific value
MARCH	4 th	NA	NA	NA.
	5 th	02P	06.03.2023 06.03.2023	In-situ theories accounting for the origin of coal Drift theories accounting for the origin of coal
	6 th	02P	13.03.2023 13.03.2023	Description of different lower gondwana coal fields of India. Petroleum and its composition.
	7 th	02P	20.03.2023	Organic theories accounting for the origin of petroleum. Inorganic theories accounting for the origin of petroleum
			20.03.2023	Migration of petroleum.
	8 th	02P	27.03.2023	Monthly Test-01
			27.03.2023	Oil traps, its formation and types of oil traps. Oil pool and its formation
APRIL	9тн	02P	03.04.2023	Process of accumulation of oil.
			03.04.2023	Description of different important oil fields of India.
	10 TH	02P	10.04.2023	Sampling and assaying

				Methods of preparation of sample assay TYPES OF SAMPLING
			17.04.2023	Grab Sampling Chip Sampling
		02P		Channel Sampling
-				TYPES OF SAMPLING
				Bulk Sampling
	11TH			Dump Sampling Towards Sampling
				Trench Sampling Different methods of sampling outlined by BIS
			17.04.2023	
		02P	24.04.2023	Prospecting and exploration Definition of Prospecting and exploration & difference between exploration and prospecting.
	12 TH		24.04.2023	Use of Multishot camera for Borehole direction test.
MAY		02P	01.05.2023	Geological exploration.
	13 TH		01.05.2023	Description of various criteria for geological exploration
		02P	08.05.2023	Geophysical prospecting and Different methods of geophysical prospecting.
	14 TH		08.05.2023	
		02P	15.05.2023	DIO-geochemical & Cook
	15 TH		15.05.2023	
		NA	22.05.2023	VERY SIMILAR TEST / MOCK TEST
	16 TH		22.05.2023	3

Saloyaralli wal 27

PREPARED BY SABYASACHI BISWAL PTGF (GEOLOGY) OSME,KEONJHAR HOD (Drilling)
DRILLING ENGINEERING
OSME, KEONJHAR

PRINCIPAL 2 S OSME, KEONJHAR Principal

Orissa School of Mining Engineering
Keonjhar