			LE	SSON PLAN
Discipline: Drilling Engineering Subject: Engineering Geology - I Sub code: Th.3			Semester: 3rdSemester No of days /week class allotted:02	Name of the Teaching Faculty: SABYASACHI BISWAL Semester from Date:15/09/2022 to 22/12/2022 No of weeks:15
September	1st	01P	17.09.2022	Introduction about Geology & Scope of Geology in Drilling Field.
	2nd	2P	19.09.2022	Elements of Mineralogy Silicate structure What is silicate structure, neso-silicate, soro-silicate.
			24.09.2022	Silicate structure Cyclo-silicate, phyllo-silicate, tecto-silicate.
	3rd	01P	26.09.2022	Physical properties of Quartz group of minerals.
October	4th	01P	01.10.2022	Physical properties of Feldspar group of minerals.
	5th	02P	10.10.2022	Various optical properties of minerals. Birefringence, uniaxial minerals, biaxial minerals. Isotropic, anisotropic, refractive index, double refraction,
			15.10.2022	Various optical properties of minerals. Extinction, pleochroism, interference colour.
	6 th	02P	17.10.2022	Surface processes causing rock disintegration Weathering and different types of weathering. Physical weathering
			22.10.2022	Weathering and different types of weathering. • Chemical weathering • Biological weathering.
	7th	02P	29.10.2022	Monthly Test.
			31.10.2022	Erosion, difference between erosion and weathering
November	8 th	01P	05.11.2022	 Erosional land forms produced by wind; Introduction & process of wind erosion, Deserve pavement, Hamada, blow-out, yardang.
	9th	2P	07.11.2022	Monthly test results and discussion. Erosional land forms produced by wind; • ventifacts, • mushroom rock, • cave rock

			12.11.2022	Depositional land forms produced by wind; Introduction about how wind deposits the sediments. Loess, Sand dunes; its formation and types: longitudinal dunes, transverse dunes, barchans, parabolic dunes, star dunes.
	10 th	2P	14.11.2022	Land forms produced by river; Introduction, river profile, ideas about process of river erosion.
			19.11.2022	Internal Assessment.
	11 th	2P	21.11.2022	Erosional land forms produced by river; Potholes, river valley, georges& canyon. Escarpment, dip slope, cuesta, hogback
			26.11.2022	Erosional land forms produced by river; Mesa & butte, water-fall, peneplain, pediplain, river- terraces, wadies, Flood plain deposits, meanders & ox- bow lake.
	12 th	1P	28.11.2022	Depositional land forms produced by river; How the river deposits sediments Alluvial fans & cones, Natural levee, braided river, delta.
December	13 th	1P	3.12.2022	Process of glacier erosion Introduction about glacier movement, difference between ice, snow, glacierWhat is ice-berg? Difference between glacier & ice-berg.
	14 th	2P	5.12.2022	Erosional features produced by glacier; Cirque, arete, horn, cols, U-shape valley, Hanging valleys, tarn, nunatak, crag & tails, Roche mountains, glacial stairway, glacial groves, fiords, paternoster
			10.12.2022	Depositional land forms produced by glacier; How glacier deposits sediments, till, erratic, drumlins, basket-egg topography.
		2P	12.12.2022	Moraine & its types; Ground moraine, end moraine, terminal moraines, medial moraine, lateral moraine, recessional moraine.
	15 th		17.12.2022	Previous Year Semester Question Discussion Revision & Doubt Clearing Class.

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