LESSON PLAN							
Discipline: Drilling Engineering			Semester: 3 rd Semester	Name of the Teaching Faculty: Sabyasachi Biswal (PTGF)			
Subject: Engineering Geology - I Sub code: Th.3			No of days /week class allotted:02	Semester from Date:01/08/2023 to 30/11/2023 No of weeks:19			
Month	week	No of periods available	Class Day	Theory topics to be covered			
	1 st	02	NA	NA.			
	2nd	2P	07.08.2023	Introduction about Geology & Scope of Geology in Drilling Field.			
. 1			07.08.2023	Elements of Mineralogy Silicate structure What is silicate structure, neso-silicate, soro-silicate.			
E	3rd	2P	14.08.2023	Silicate structure Cyclo-silicate, phyllo-silicate, tecto-silicate.			
AUGUST			14.08.2023	Physical properties of Quartz group of minerals.			
AUC	4тн	2P	21.08.2023	Physical properties of Feldspar group of minerals			
			21.08.2023	Various optical properties of minerals. Birefringence, uniaxial minerals, biaxial minerals. Isotropic, anisotropic,			
	5тн	2P	28.08.2023	Various optical properties of minerals. • Extinction, pleochroism, interference colour. refractive index, double refraction,			
			28.08.2023	CLASS TEST-I			
	6тн	02P	NA	NA NA			
	7тн	02P	04.09.2023	Surface processes causing rock disintegration Weathering and different types of weathering. Physical weathering ,Chemical weathering ,Biological weathering			
			04.09.2023	Erosion, difference between erosion and weathering			
SEPTEMBER	8тн	02P	11.09.2023	Erosional land forms produced by wind; Introduction & process of wind erosion, Desert pavement, Hamada, blow-out, yardang			
			11.09.2023	Erosional land forms produced by wind; ventifacts, mushroom rock, cave rock			
	1.1	02P	18.09.2023	Depositional land forms produced by wind; Introduction about how wind deposits the sediments. Loess			
	9тн		18.09.2023	Sand dunes; its formation and types: longitudinal dunes, transverse dunes, barchans, parabolic dunes, star dunes			

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				Land forms produced by river;
OCTOBER	10 TH	02P	25.09.2023	Introduction, river profile, ideas about process of river erosion,
			25.09.2023	CLASS TEST-II
	11 th	NA	NA	NA
	12 th	2P	09.10.2023	Internal Assessment.
			09.10.2023	
	13 th	2Р	16.102023	Erosional land forms produced by river; Potholes, river valley, georges& canyon. Escarpment, dip slope, cuesta, hogback
			16.10.2023	Erosional land forms produced by river; Mesa & butte, water-fall, peneplain, pediplain, river- terraces,
	14 th	2P	30.10.2023	wadies,Flood plain deposits, meanders & ox-bow lake.
			30.10.2023	Depositional land forms produced by river; How the river deposits sediments Alluvial fans & cones, Natural levee, Braided river, Delta.
NOVEMBER	15 th	NA	NA	NA
	16 th	2P	06.11.2023	Process of glacier erosion Introduction about glacier movement, difference between ice, snow, glacierWhat is ice-berg? Difference between glacier & ice-berg. Erosional features produced by glacier; Cirque, arete, horn, cols, U-shape valley, Hanging valleys, tarn, nunatak, crag & tails,
			06.11.2023	Roche mountains, glacial stairway, glacial groves, fiords, paternoster lake.
	17տ	2P	13.11.2023	Depositional land forms produced by glacier; How glacier deposits sediments, till, erratic, drumlins, basket-egg topography.
			13.11.2023	Moraine & its types: Ground moraine, End moraine, terminal moraines, medial moraine, lateral moraine, recessional moraine.
	18 th	2P	20.11.2023	Previous Year Semester Question Discussion Revision & Doubt Clearing Class.
			20.11.2023	DOUBT CLEARING CLASSES
	19тн	NA	NA	NA

PREPARED BY

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