Discipline: Mining Engineering	Semester: 3 rd semester	Name of the Teaching Faculty:1) MRS.SAMAPIKA DASH (Regular) 2) Ms. Saziya Khurshid (PTGF)		
Subject: Mine GEOLOGY - I Sub code: Th.3	No of days /week class allotted:04	Semester from Date:01/0°/2021 to 18/01/2022 No of weeks:15 Practical topics		
week	Class Day	Theory topics	Megascopic Identification of rock	
1 st	1 st	Introduction about Geology and different branches of geology and scope of Geology for Mining Engineering	forming Minerals	
	2 nd	Physical Geology Weathering and different types of weathering. 1. Physical weathering.	Megascopic Identification of rock	
	3 rd	Weathering and different types of weathering. 2. Chemical Weathering. 3. Biological Weathering.	forming Minerals	
	4 th	Erosion and its types	Megascopic Identification of rock	
2 nd	1 st	Erosional land forms produced by wind.	forming Minerals	
	2 nd	Erosional land forms produced by wind.	Megascopic Identification of rock	
	3 rd	Depositional land forms produced by wind	forming Minerals	
	4 th	Depositional land forms produced by wind	Megascopic Identification of rock	
3 rd	1 st	Dune and its types.	forming Minerals	
	2 nd	Erosional land forms produced by river.	Megascopic Identification of rock	
	3 rd	Depositional land forms produced by river	forming Minerals	
	4 th	Depositional land forms produced by river	Megascopic Identification of ore	
4 th	1 st	Erosional features produced by glacier.	forming Minerals	
	2 nd	Depositional features produced by glacier.	Megascopic Identification of ore	
	3 rd	What is iceberg .Difference between glacier and iceberg	forming Minerals	
	4 th	Moraine and the different type of moraine with sketches.	Megascopic Identification of ore	
5 th	1 st	Petrology Rocks and minerals with example.	forming Minerals	
	2 nd	Igneous rocks and its types	Megascopic Identification of ore	
	3 rd	Sedimentary rocks and its types	forming Minerals	
	4 th	Metamorphic rocks and its types	Megascopic Identification of ore	
5 th	1 st	Texture and Various textures found in Igneous rocks	forming Minerals	
	2 nd	Porphyritic and poikilitic texture with diagram.	to the editionation of ore	
	3 rd	Surprise Test	Megascopic Identification of ore forming Minerals	
	4 th	Description of Various structures found in Igneous rocks.	and the state of the december	
th	1 st	Description of Various structures found in sedimentary	Megascopic Identification of industria Minerals	
	2 nd	Description of Various structures found in metamorphic rocks.	Megascopic Identification of industria	
	3 rd	Structural Geology Introduction to structural Geology and Description	Megascopic identification of industrie	

		ofOutcrop ,bed , Dip, Strike ,True dip and apparent dip with	ı
		diagram	
	4 th	Fold and different parts of fold with diagram.	Megascopic Identification of industrial
th	1st	Description of different types of fold	Minerals
	2 nd	Description of different types of fold	Megascopic Identification of industrial
	3 rd	Faults and terminology of fault.	Minerals
	4 th	Description of different types of Fault with diagram.	Study of microscope and its parts.
9 th	1 st	Description of different types of Fault with diagram.	Study of fine-es
	2 nd	Recognization of faults in the field	I ter norte
		1 to hinds	Study of microscope and its parts.
	3 rd	Joints and its types	i l
	4 th	Unconformity and how the unconformities have been formed in nature	Analysis of thin section of minerals
10 th	1 st	Study of different types of unconformities	(optical properties of minerals)
	2 nd	Element of Crystallography	file and in of minerals
	3 rd	Crystals and its types Explain Miller's indices.	Analysis of thin section of minerals (optical properties of minerals)
		Describe the symmetry elements present in normal class of	
	4 th	isometric system.	Analysis of thin section of minerals
11 th	1 st	Forms present in the normal class of isometric system.	(optical properties of minerals)
	2 nd	Elements of Mineralogy Minerals and rock forming and ore forming minerals with	
	-		Analysis of thin section of minerals
	3 rd	examples Physical properties of minerals.	Analysis of thin section of fillerals (optical properties of minerals)
	4 th	Physical properties of minerals.	Analysis of thin section of minerals
12 th	1 st	Physical properties of minerals.	(optical properties of minerals)
1-	and	Silicate structures along with diagrams.	
	2 nd	1 Necosilicates 2 soro silicates, 3 cyclo silicates	Analysis of thin section of minerals
	3 rd	- I - w - to returns along WITH Gldgldills.	(optical properties of minerals)
_		4 Chain silicates5.sheet silicates 6.tecto silicates	
	4 th	Various optical properties of minerals.	Analysis of thin section of Rocks
13 th	1 st	Various optical properties of minerals.	
	2 nd	Physical properties of Quartz group of minerals.	Analysis of thin section of Rocks
	3 rd	Physical properties of Feldspar group of minerals.	Allalysis of
	4 th	Physical properties of Olivine group of minerals.	Analysis of thin section of Rocks
14 th	1 st	Physical properties of Pyroxene group of minerals.	Analysis of time seems
	2 nd	DOUBT CLEARING CLASS	Analysis of thin section of Rocks
	3 rd	DOUBT CLEARING CLASS	Analysis of thin section con-
	4 th	DOUBT CLEARING CLASS	Specific Gravity by Steel yard Balance
15 th	1 st	MOCK TEST	Specific Gravity by Steel, years
15	2 nd	MOCK TEST	Construerd Balance
	3 rd	MOCK TEST	Specific Gravity by Steel yard Balanc
	4 th	MOCK TEST	

