Name of the college: Government College of Arts, Science & Commerce, Sanquelim, Goa-India

Name of Faculty: Shritesh Mhapsekar	Subject: Geology	
Paper code: GEO-111; Introduction to Geology	Program/Course: FY B.Sc.	Division:
Academic year: 2024- 2025	Semester: I	Total Lectures: 60
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2. To describe minerals and rocks using physical pro	•	
1. To discuss the origin and various components of ea 2. To describe minerals and rocks using physical pro Course Learning Outcome: 1Distinguish between the layers of the earth based on and composition (CL2)	perties.	
2. To describe minerals and rocks using physical pro Course Learning Outcome: 1Distinguish between the layers of the earth based on	perties.	

Month	Lectures From:	Lectures To:	No. of lectures allotted	Topic, Subtopic to be covered	Exercise/ Assignment	ICT Tools	Reference books
	July 1, 2024	July 7, 2024	4	Introduction to Geology Applications and Career opportunities in Geosciences.	Origin and shape of the earth		

				Origin, Shape, Size internal structure of the earth	-	
	July 8, 2024	July 14, 2024	4	internal structure of the earth internal structure of the earth Introduction to Plate Tectonics Introduction to Plate Tectonics	Plate tectonic models	Singh, P. (1978). A textbook of engineering and general geology (3rd ed.). S. Chand &
JUILY	July 15, 2024	July 21, 2024	4	Introduction to Plate Tectonics Atmosphere: Structure and Composition Hydrosphere: Occurrence and distribution of water, Hydrological Cycle Biosphere: Evolution of life through geologic time	Atmospehere column	Company Ltd. Rutley, F. (2019). Rutley's Mineralogy. Routledge
	July 22, 2024	July 28, 2024	4	Biosphere: Evolution of life through geologic time Cryosphere		Winter John: Igneous and metamorphic petrology, Prentice

				Geosphere: Minerals and Rocks Introduction to			Hall, 2010.
				Minerals and Rocks			Best M.:
	July 29, 2024	August 4, 2024	4	ISA I	Identifying the		Igneous and
				colour, streak, lustre	properties of		Metamorphic
				diaphaneity,	minerals		rocks,
				cleavage			Wiley- Blackwell,
AUGUST				fracture, form			2002.
	August 5, 2024	August 11, 2024	4	habit, hardness,	-		
				specific gravity and	-		Winter John: Igneous and
				crystal system			metamorphic petrology,
				Uses of Minerals	1		
							Prentice
				Introduction of			Hall, 2010.
				common rock –			
	August 12, 2024	August 18, 2024	4	Introduction of			
				common rock –			Best M.:
				Introduction of			Igneous and
				common rock –			Metamorphic
				Holiday			rocks,
				Introduction of			Wiley- Blackwell,
				common rock –			2002.
	August 19, 2024	August 25, 2024	4	Introduction of	Identifying		2002.
				common rock –	classifying the		Best M.:
				Scope and	rocks		Igneous and
				importance of			Metamorphic
				Petrology	4		rocks,
				Rocks: their			Wiley-
				classification	4		Blackwell,
				Rocks: their classification			2002.
l				classification			

1	August 26, 2024	September 1,	4	Rock Cycle	7	[ן ו
	August 20, 2024	2024	4	Rock Cycle	-		
		2024		ISA Revision	-		
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				ISA II			
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	September 2,	September 8,	4	Igneous Rocks:	_		
	2024	2024		Mode of occurrence,			
				Forms			
				Holiday			
				Holiday	-		
SEPTEMBE				-			
R	September 9,	September 15,	4	Holiday	_		Winter John:
	2024	2024		Holiday	_		Igneous and
				Holiday			metamorphic
				structures	-		petrology,
				suuctures			Prentice
	September 16,	September 22,	4	textures	-		Hall, 2010.
	2024	2024	4	Bowen's Reaction	-		Best M.:
	2021	2021		series			Igneous and
				Bowen's Reaction	-		Metamorphic
				series			rocks,
							Wiley-
				Classification based			Blackwell,
				on grain			2002.
				size			
	September 23, 2024	September 29, 2024	4	ISA III			
	2024	2024		Classification based	1		Winter John:
				on mineral			Igneous and
				composition			metamorphic
				Sedimentary Rocks			petrology,
				Structures	Idantifyina		Prentice
	September 30,	October 6,		textures	Identifying classifying the		Hall, 2010.
OCTOBER	2024	2024	4	textures	rocks		
I			4	icatures	IUCKS		J

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ISA 3 10
Project -
Semester End