

Lecture Plan							
Name of the college: Government College of Arts, Science and Commerce, Sanquelim- Goa							
Name of Faculty:Diksha Karapurkar				Subject: Geology			
Paper code: GEO 302: Igneous Petrology				Program: T.Y.B.Sc.		Division: -	
Academic year: 2025 - 2026				Semester: V		Total Lectures: 09	
Course Objectives: The objectives of this course are to: 1. Describe the processes involved in the formation of igneous rocks and their diversity. CL2 2. Classify igneous rocks. CL2 3. Discuss the crystallization of melts by studying textures and structure of igneous rocks. CL2							
Course Outcomes: At the end of the course the student will be able to: 1. Explain formation and diversity of igneous rocks. CL2 2. Interpret the cooling history of igneous rocks using textures and structures. CL3 3. Illustrate crystallization trends in magmatic systems. CL3 4. Identify common igneous rocks both in hand specimen and thin section. CL3							
Month	Lecture From	Lecture To	No. of lectures allotted	Topic, Subtopic to be covered	Exercise/ Assignment	ICT Tools	Reference books
August	11/08/2025	17/08/2025	1	Igneous Intrusive Structures; Dikes, Sills	Kahoot Quizzes, ISAs	Powerpoint Presentations, Illustrations, Interactive digital models,	Winter, J. D. (2013). Principles of igneous and metamorphic petrology: Pearson New International Edition.
August	18/08/2025	23/08/2025	1	Batholiths; Stocks; Bosses; Pondants;			

				Xenoliths			Pearson Higher Ed.
September	02/09/2025	06/09/2025	1	Lacoliths; Lopoliths; Phaccoliths			
September	08/09/2025	13/09/2025	1	Extrusive Igneous Structures; Blocky and Ropy Lavas; Columnar and Entablatur Structures; pillow lava,			
September	15/09/2025	20/09/2025	1	vesicular, amygdaloidal, columnar, exfoliation joints, lava tubes			
September	22/09/2025	27/09/2025	1	volcanic neck; central and fissure type eruptions			
September - October	29/09/2025	04/10/2025	1	Crystallization trend of Di-Ab-An system (1)			
October	06/10/2025	11/10/2025	1	Crystallization trend of Di-Ab-An system (2)			
October	13/10/2025	17/10/2025	1	Crystallization trend of Di-Ab-An system (3)			

* Assessment Rubrics

Component	Max Marks
ISA 1	7.5
ISA 2	7.5
ISA 3	7.5

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