

Practical Plan

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

Name of Faculty: Magnolia Aurea
Miranda

Subject: Geology

Paper code: GEC 109

Program: TY BSc

Division:

Academic year: 2024 - 2025

Semester: VI

**Total
Practicals/Labs:**

Credits: 2

Course Objectives:

1. This course will mainly focus on the occurrence, appearance, formation and distribution of metamorphic rocks.
2. It will provide an insight into the mineralogy, texture and structure of metamorphic rocks
3. It will create lineage between different metamorphic, igneous and sedimentary rocks
4. Also highlight the field characters, facies and ultimately the tectonic settings in which the rocks formed.

Expected Course Outcome:

1. Distinguish metamorphic rocks from other types of rocks
2. Categorize and relate the metamorphic mineral assemblages according to their modes of formation
3. Describe and discern the textures and structures exhibited by metamorphic rocks
4. Interpret tectonic settings based on the type of metamorphic rock

Student Learning Outcome:				
Month	Practicals / Labs Schedule Date	No. of Practical/Labs planned	List of Experiments	Reference books
December	13-12-24	1	Megascopic identification of metamorphic rocks	Raymond, Loren: Igneous and Metamorphic Petrology, John Wiley Sons Winter John: Igneous and metamorphic petrology Blatt and Tracy: Petrology
	20-12-24	2	Megascopic identification of metamorphic rocks	
		3	Megascopic identification of metamorphic rocks	
January	3-1-25	4	Megascopic identification of metamorphic rocks	
	17-1-25	5	Megascopic identification of metamorphic rocks	
	24-1-25	6	Microscopic identification of metamorphic rocks in thin-sections.	
	31-1-25	7	Microscopic identification of metamorphic rocks in thin-sections	
February	7-2-25	8	Microscopic identification of metamorphic rocks in thin-sections	
	14-2-25	9	Microscopic identification of metamorphic rocks in thin-sections	
	21-2-25	10	Microscopic identification of metamorphic rocks in thin-sections	
	28-2-25	11	Microscopic identification of metamorphic rocks in thin-sections	
March	6-3-25	12	ACF diagrams	Metamorphic Petrology: Bhasker Rao Petrology: Blatt and Tracy Online Resources
	13-3-25	13	ACF diagrams	
	20-3-25	14	AFM diagrams	
April	06-4-25	15	AFM diagrams	

Assessment Rubrics

Component	Max Marks
ISA 1	10
ISA 2	10
Practical	50
Project	-
Semester End Exam	80