

Faculty	Natural Sciences		
Home Department	Earth Sciences		
Module Topic	Igneous and Metamorphic Petrography and Field School		
Generic Module Name	Geology 235		
Alpha-numeric Code	APG235		
NQF Level	6		
NQF Credit Value	20		
Duration	Semester		
Proposed semester to be offered	Second Semester		
Programmes in which the module will be offered	BSc (Applied Geology) (3214, 3011)		
Year level	2		
Main Outcomes	<p>On completion of this module students should be able to:</p> <ul style="list-style-type: none"> • Observe and describe the occurrence and spatial arrangement of various types of rocks in the field. • Locate themselves in the field and record information collected in the field. • Produce geological maps at various scales and take geological measurements in the field. • Recognize igneous and metamorphic rocks and associated textures in hand specimen and under the microscope. • Relate the changes in the mineralogy of igneous rocks to the variation in the chemistry of the rocks. • Describe the origin of igneous and metamorphic rocks and associated textures, as well as the various igneous and metamorphic rock-forming processes. 		
Main Content	<ul style="list-style-type: none"> • Geological mapping techniques • Structural analysis of geological data • Reporting geological data and report writing • Formation of igneous and metamorphic rocks • Description and classification of igneous and metamorphic rocks 		
Pre-requisite modules	ESC111 and ESC121		
Co-requisite modules	None		
Prohibited module Combination	APG233; EWP222		
Breakdown of Learning Time	Hours	Timetable Requirement per week	Other teaching modes that does not require time-table
<i>Contact with lecturer / tutor:</i>	18	<i>Lectures p.w.</i>	2
<i>Assignments & tasks:</i>	34	<i>Practicals p.w.</i>	1
<i>Practicals:</i>	30	<i>Tutorials p.w.</i>	0
<i>Tutorials:</i>	0		
<i>Assessments:</i>	18		
<i>Selfstudy:</i>	40		
<i>Other: Field Work</i>	60		
Total Learning Time	200		
Methods of Student Assessment	Continuous Assessment (CA): 60% Final Assessment (FA): 40%		
Assessment Module type	Continuous and Final Assessment (CFA)		