Module code		SB-2201		
Module Title		Plant Form and Function		
Degree/Diploma		Bachelor of Science (Biology)		
Type of Modu		Major Core		
Modular Credi	its	4	Total student Workload	8 hours/week
			Contact hours	2 hours/week lectures
				4 hours/week practicals
Prerequisite		SB-1201 Diversity of Life		
Anti-requisite		None		
for the function morphology and of the develop innovations, and	oning o nd the f opment nd impo	f plants. Students v unctions of the diffe t of plant structur prtant plant groups c	understanding of basic plant mo vill relate the internal structure rent plant organs. Students will re, major morphological and over evolutionary time scales. ology streams: Biological Science	e of plants to their external also obtain an understanding eco-physiological adaptive
Learning Outc				
-		tion of this module.	a student will be expected to b	e able to:
Lower order : 30% - Describe the vegetative and reproductive morphology of plant				
	<ul> <li>Describe the inner functions of plants</li> <li>Prepare and stain thin plant sections and recognize the cells and tissues in such sections</li> <li>Identify the main plant groups and know the evolutionary relationships between them</li> </ul>			
Middle order :	60%	<ul> <li>Demonstrate how modifications of existing plant structures can lead to better environmental adaptations</li> <li>Predict the life history strategies of plants based on their morphology</li> <li>Predict plant traits based on their position in the evolutionary tree</li> </ul>		
Higher order:	10%	<ul> <li>Evaluate the limitations and advantages of certain plant traits for survival in specific environments</li> <li>Assess how environmental change can provide advantages as well as disadvantages for certain plant groups due to their morphology</li> <li>Predict the kind of plants can be expected in specific environments.</li> </ul>		
Module Conte	nts			
The main cont - Organology a - Reproductior - Plant anatom - Morphologica	ents of ind veg n in flow ny in re al and a the pla	wering plants lation to function a anatomical adaptati	angiosperms and gymnosperm nd biomechanics ions to extreme environments erview of the major plant group	
Assessment	Formative assessment		Students will apply the theory and methods in practicals under the supervision of the lecturers.	
	Summative assessment		Examination: 60%	
			Coursework: 40%	
			<ul> <li>Four (4) practical assignmen</li> <li>Two (2) tests (20%)</li> </ul>	ts (20%)