

<b>Module code</b>	SB-2201		
<b>Module Title</b>	Plant Form and Function		
<b>Degree/Diploma</b>	Bachelor of Science (Biology)		
<b>Type of Module</b>	Major Core		
<b>Modular Credits</b>	4	<b>Total student Workload</b>	8 hours/week
		<b>Contact hours</b>	6 hours/week
<b>Prerequisite</b>	SB-1201 Diversity of Life		
<b>Anti-requisite</b>	None		
<b>Aims</b>			
<p>This module will provide students with an understanding of basic plant morphology and its importance for the functioning of plants. Students will relate the internal structure of plants to their external morphology and the functions of the different plant organs. Students will also obtain an understanding of the development of plant structure, major morphological and eco-physiological adaptive innovations, and important plant groups over evolutionary time scales.</p>			
<b>Learning Outcomes</b>			
<i>On successful completion of this module, a student will be expected to be able to:</i>			
Lower order :	30%	<ul style="list-style-type: none"> <li>- Describe the vegetative and reproductive morphology of plants</li> <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 style="list-style-type: none"> <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 style="list-style-type: none"> <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>	
<b>Module Contents</b>			
<ul style="list-style-type: none"> <li>- Organology and vegetative structure of angiosperms and gymnosperms</li> <li>- Reproduction in flowering plants</li> <li>- Plant anatomy in relation to function and biomechanics</li> <li>- Morphological and anatomical adaptations to extreme environments</li> <li>- Evolution of the plant kingdom, and overview of the major plant groups</li> <li>- Plant life cycles</li> </ul>			
<b>Assessment</b>	Formative assessment	Tutorial assignments and feedback	
	Summative assessment	Examination: 60% Coursework: 40% <ul style="list-style-type: none"> <li>- 4 practical assignments (20%)</li> <li>- 2 class tests (20%)</li> </ul>	