Module code SB-4320					
Module Title Plant Ecophysi	Plant Ecophysiology				
Degree/Diploma Bachelor of Sci	Bachelor of Science (Biology)				
Type of Module Major Option					
Modular Credits 4	Total student Workload	8 hours/week			
	Contact hours	6 hours/week			
Prerequisite SB-2207 Princi	SB-2207 Principles of Plant Physiology				
Anti-requisite None	None				
Aims					
This module is designed to increase	he understanding of how pla	ants respond to changes in the			
environment.					
The nature of plant growth, reprodu	ction, survival, abundance a	nd geographical distribution in			
response to different environmental co	nditions will be examined. Fur	thermore, students will learn to			
evaluate and analyse the overall physi	ological mechanisms of plants	in relation to interactions with			
physical, chemical and biotic environm	ents.				
Learning Outcomes					
On successful completion of this modul	e, a student will be expected to	be able to:			
Lower order : 40% - Explain the concepts and topics of plant ecophysiology - Describe the fundamental significance of specific plant traits and their evolutionary heritage					
			Middle order : 40% - Relate survival, distribution, abundance and interactions of plants with environment and other organisms. -Discuss performance of plants under different habitat conditions		interactions of plants with
nt habitat conditions					
- Conduct lab a	nd field practicals, collect expe	erimental data, interpret and			
discuss resul	ts				
Higher order: 20% - Interpret the	overall physiological mechanisi	ms of plants that underline			
ecological of	servations				
Module Contents					
-Resource acquisition by plants: light, v	vater and nutrients				
-Seed ecophysiology					
-Regeneration and growth responses in	pioneer and late successional	plant species			
Application of stable isotope technique	I ac in plant productivity				
Carbon sequestration					
Whole plant putrient use officiency ar	d porformance of plants under	r different environmental			
conditions	a performance of plants under				
Assessment Formative assessment	t Tutorial assignments and	l feedback			
Summative assessment	nt Examination: 60%				
	Coursework: 40%				
	- A practical reports (20%	(1)			
	- + practical reports (20%	uj			
	- 1 group proceptation /	5%)			