Module code	SB-1201		
Module Title	Diversity of Life		
Degree/Diploma	Bachelor of Science (Biology)		
Type of Module	Major Core		
Modular Credits	4	**Total student workload**	8 hours/week
		Contact hours	6 hours/week
Prerequisite	None		
Anti-requisite	None		

Aims

This module aims to introduce students to the world of living organisms and the theory of evolution as a unifying theme. The module highlights the diversity of life by studying major phyla according a classification system based on 3 domains and 5 kingdoms.

Learning Outcomes:

On successful completion of this module, a student will be expected to be able to:

Lower order :	30%	- Explain basic mechanisms for the evolution and origin of species - Describe relationship of the 5 biological kingdoms used in the modern classification system
Middle order :	60%	- Describe the phylogenetic relationships (molecular and morphological) for selected animal and plant phyla - Identify the phylum of selected material using key diagnostic features of major plant and animal taxa, - Analyse basic structure-function relationships
Higher order:	10%	- Use light microscopy and perform simple drawings of structures using a microscope - Perform simple dissections and prepare slides of animal parts

Module Contents

- Evidence for evolution, mechanisms of evolution
- Origin of species
- Tracing evolution through phylogeny
- Extinction and radiation based on selected case studies
- Differences between Prokaryotes and Eukaryotes
- Classification and the taxonomic hierarchy
- Origins and relationships of the 5 kingdoms
- The evolutionary relationships within and between the main groups of organisms
- How evolutionary relationship is reflected in the classification
- Prokaryotes, viruses, Protista (animal protists, plant protists and algae)
- Bryophytes, ferns, gymnosperms,
- Angiosperms
- Fungi, Porifera, Cnidaria,
- Platyhelminthes, Nematoda, Annelida
- Mollusca, Arthropoda, Echinodermata and Chordata
- Man's origins and relationships to the living world

Assessment	Formative assessment	Tutorial assignments and feedback
	Summative assessment	Examination: 60%
		Coursework: 40% - 5 practical reports (30%) - 2 class tests (10%)