

Module code	SB-2211		
Module Title	Genetics		
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			
The module is designed for students to have a fundamental understanding of classical and molecular genetics.			
Learning Outcomes			
<i>On successful completion of this module, a student will be expected to be able to:</i>			
Lower order :	60%	<ul style="list-style-type: none"> - Explain the basic principles of mitosis and meiosis - Identify the Mendelian and non-Mendelian inheritance - Describe the chromosomal basis of inheritance - Describe DNA as genetic material - Describe gene expression and its regulation 	
Middle order :	30%	<ul style="list-style-type: none"> - Analyse genetic crosses using Punnett square - Interpret genetic code 	
Higher order:	10%	<ul style="list-style-type: none"> - Develop competence in laboratory skills - Work and learn independently 	
Module Contents			
<ul style="list-style-type: none"> - The cell cycle - Meiosis and sexual life cycles - Mendelian and non-Mendelian inheritance - The chromosomal basis of inheritance - DNA as genetic material - Gene expression - Regulation of gene expression 			
Assessment	Formative assessment	Tutorial assignments and feedback	
	Summative assessment	Examination: 70% Coursework: 30% <ul style="list-style-type: none"> - 4 practical assignments (20%) - 2 class tests (10%) 	