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

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

Lower order :	60%	- 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%	- Analyse genetic crosses using Punnett square - Interpret genetic code
Higher order:	10%	- Develop competence in laboratory skills - Work and learn independently

Module Contents

- 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% - 4 practical assignments (20%) - 2 class tests (10%)