



APPROVED

Awards			
Higher Certificate			
Programme Code:	TA_SBIOL_C	Mode of Delivery:	Full Time
		No. of Semesters:	4
NFQ Level:	6		
Embedded Award:	No	Programme Credits:	120
Language of Instruction:	English		
Department:	Science		
CAO Code:	1. TA301		
CAO Code:	On completion of this Higher Certificate in Science (Applied Biology), and subject to satisfying the qualification criteria, students may be eligible to progress onto the B.Sc. (Ordinary) in Bioanalysis		

Programme Outcomes

On successful completion of this programme the learner will be able to :

PO1	Knowledge - Breadth	
	(a)	
PO2	Knowledge - Kind	
	(a)	Students will gain knowledge in the scientific areas of biology, chemistry, physics and maths, including an understanding of the theories and principles underlying these topics.
PO3	Skill - Range	
	(a)	Students will be able to apply the knowledge gained and to integrate knowledge from other science subjects with biology.
PO5	Competence - Context	
	(a)	Students will be competent in performing basic laboratory procedures using a range of laboratory procedures.
PO6	Competence - Role	
	(a)	Students will be acquainted with the role of analysts and technicians in the industrial context and be familiarised with the skill sets required by each type of employee occupying these roles. They will be encouraged to view their development within the programme as a basis on which to build their skill sets to a level compatible with these roles & as a basis on which to develop a role as a research scientist. They will be able to work both individually and in teams within the laboratory environment.
PO7	Competence - Learning to Learn	
	(a)	Students will be offered opportunities to objectively critique their courses and determine the features of their courses which propel them towards learning and develop their interest in the subject. They will be able to search for and locate sources of scientific information using electronic resources, the library and the media. Students will be asked to perform written and oral assignments. They will be shown how to improve the accuracy of their language and improve their scientific expression, including the correct use of scientific units and scientific notation as well as the appropriate use of molecular and species names.
PO8	Competence - Insight	
	(a)	Students will be encouraged to express their views on topical issues in the scientific media. They will be encouraged to develop assignments on biological issues which are currently being presented in the popular media and asked to share their views with their peer groups via group-based discussions in lectures

Semester Schedules

Stage 1 / Semester 1

Mandatory	
Module Code	Module Title
BIO H1001	Biology 1
CHEM H1001	Chemistry I
PHYS H1001	Physics 1
MATH H1040	Mathematics 1
CSKD H1000	Critical Skills Development
LSKI H1006	Laboratory Skills I

Stage 1 / Semester 2

Mandatory	
Module Code	Module Title
BIOL H1002	Biology 2
CHEM H1002	Chemistry 2
PHYS H1002	Physics 2
MATH H1041	Mathematics 2
LSKI H1007	Laboratory Skills II

Stage 2 / Semester 1

Mandatory	
Module Code	Module Title
CHMS H2001	Scientific Analysis 1: Chromatographic Techniques & Measurement Systems
STAT H2005	Statistics
BIOC H2040	Principles of Biochemistry
MICR H2004	General Microbiology
LSKI H1004	Laboratory Skills 3 for Bioanalysis

Stage 2 / Semester 2

Mandatory	
Module Code	Module Title
SCAN H2003	Scientific Analysis 2
GENS H2001	Principles of Genetics
MICR H2005	Pharmaceutical Microbiology
BIOC H2005	Biochemistry
LSKI H2003	Laboratory skills 4 for Bioanalysis