

APPROVED



Awards					
Honours Bachelor Degree					
Programme Code:	DK_SBIOP_8	Mode of Delivery:	Full Time, Part Time	No. of Semesters:	2
NFQ Level:	8				
Department:	Applied Sciences				

Programme Outcomes

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

PO1	Knowledge - Breadth	
	(a)	Have a detailed knowledge and understanding of the essential facts, major concepts, principles and theories associated with a particular sub-field or sub-fields of science.
PO2	Knowledge - Kind	
	(a)	Have a detailed knowledge of: - the terminology, nomenclature, and/or classification systems appropriate to the subject area; - the theories, paradigms, defining concepts and underlying principles of the subject area; - advanced methods for acquiring, interpreting and analysing subject-specific information, with a critical understanding of the appropriate contexts for their use through the study of texts and original papers; - the identification, definition and resolution of complex problems; - relevant legal and regulatory frameworks; - current issues of concern to society and an understanding of the philosophical and ethical issues involved.
	(b)	Have a detailed knowledge of: - some aspects of the defining elements of the subject area as a result of in-depth individual study or research; - the current knowledge and development of the subject area (including current limits of theoretical and applied knowledge).
PO3	Skill - Range	
	(a)	- solve complex technical problems; - employ advanced data analysing, synthesising and summarising skills in a scientific work setting; - source, interpret and apply appropriate and referenced literature and other information sources; - work independently within defined time and resource boundaries; - effectively and safely operate a range of complex laboratory and other relevant equipment; - apply advanced numerical and statistical analysis skills; - maintain detailed records of activities.
	(b)	- communicate scientific information in a variety of forms to specialist and non-specialist audiences; - design a relevant programme of investigation.
PO4	Skill - Selectivity	
	(a)	- think independently and make effective decisions; - recognise and respect the views of others; - contribute fully to the day-to-day operations of a scientific industry, or other scientific work setting; - make decisions in relation to a complex or highly regulated environment; - formulate and test hypotheses; - appreciate the limits of knowledge in a scientific area and respond appropriately.
PO5	Competence - Context	

	(a)	<ul style="list-style-type: none"> - use advanced scientific skills to critically interpret existing knowledge and apply in new situations; - make and report appropriate decisions and take responsibility for such decisions; - behave ethically in a range of work settings; - present and engage in debate relating to general scientific issues.
PO6	Competence - Role	
	(a)	<ul style="list-style-type: none"> - plan for effective project implementation and manage the organisation of tasks, people and resources; - participate constructively in a complex team environment within a scientific field.
	(b)	<ul style="list-style-type: none"> - reflect on own practices; - accept responsibility for the work of self and others; - develop and train staff to meet changing technical needs.
PO7	Competence - Learning to Learn	
	(a)	<ul style="list-style-type: none"> - identify knowledge gaps and source and undertake self-learning to fill the gaps; - demonstrate and awareness of the need for enhanced technical competencies and continuing professional development; - evince a commitment to continuing education and lifelong learning.
PO8	Competence - Insight	
	(a)	Develop a capacity for social responsibility and contribute to the development of the role of the scientist in society.
	(b)	Demonstrate the capacity to draw complex information together and present it in an understandable format.
	(c)	Demonstrate the capacity to acknowledge the current issues of concern to society and an understanding of the philosophical and ethical issues involved.
	(d)	Demonstrate a questioning attitude to the assumptions, both overt and covert, underlying modern science.

Semester Schedules

Stage 1 / Semester 1

Mandatory	
Module Code	Module Title
RESA S8002	Research Design, Stats & Ethics
PHAR S8013	Biomolecular Therapeutics and Bioinformatics
PHAR S8006	Biopharmaceutical Processing (Upstream)
PROJ S8007	Biopharma Research Project (Part 1 of 2)

Stage 1 / Semester 2

Mandatory	
Module Code	Module Title
PHAR S8008	Biopharmaceutical Processing (Downstream)
PHAR S8009	Recombinant Drug Manufacturing & Engineering
PHAR S8010	Biopharmaceutical Analysis
PROJ S8007	Biopharma Research Project (Part 2 of 2)