



<b>Title:</b>	Biosciences Project	<b>APPROVED</b>
<b>Long Title:</b>	Biosciences Project	
<b>Module Code:</b>	BIOT8018	<b>Duration:</b> 1 Semester
<b>Credits:</b>	10	
<b>NFQ Level:</b>	Advanced	
<b>Field of Study:</b>	Biotechnology	
<b>Valid From:</b>	Semester 1 - 2018/19 ( September 2018 )	
<b>Module Delivered in</b>	<a href="#">2 programme(s)</a>	
<b>Module Coordinator:</b>	Brigid Lucey	
<b>Module Author:</b>	Rosemary Rea	
<b>Module Description:</b>	This module develops within the learner the knowledge, know-how and skills, and competencies required to successfully complete a project in accordance with an approved plan. The module requires the learner either individually or as part of a team to develop, implement and critically assess a detailed methodology to address a defined problem within a prescribed time-frame. The learner is expected to be self motivated whilst working under direction of a project supervisor and to communicate the process and outcomes of their work in a style and manner appropriate for professional practitioners in the discipline.	
<b>Learning Outcomes</b>		
<i>On successful completion of this module the learner will be able to:</i>		
LO1	Display initiative, analysis and problem solving skills in developing a detailed, viable methodology for addressing an open-ended problem	
LO2	Develop a project plan and consider health and safety requirements where relevant to implement the proposed methodology	
LO3	Systematically review and adapt the design during implementation in response to practical, real-world constraints	
LO4	Critically assess the outcome against, inter alia, appropriate design, safety, commercial and ethical criteria where relevant	
LO5	Demonstrate the appropriate written and oral communication skills required of the professional practitioner	
<b>Pre-requisite learning</b>		
<b>Module Recommendations</b>		
<i>This is prior learning (or a practical skill) that is strongly recommended before enrolment in this module. You may enrol in this module if you have not acquired the recommended learning but you will have considerable difficulty in passing (i.e. achieving the learning outcomes of) the module. While the prior learning is expressed as named CIT module(s) it also allows for learning (in another module or modules) which is equivalent to the learning specified in the named module(s).</i>		
<b>Incompatible Modules</b>		
<i>These are modules which have learning outcomes that are too similar to the learning outcomes of this module. You may not earn additional credit for the same learning and therefore you may not enrol in this module if you have successfully completed any modules in the incompatible list.</i>		
No incompatible modules listed		
<b>Co-requisite Modules</b>		
No Co-requisite modules listed		
<b>Requirements</b>		
<i>This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed. You may not enrol on this module if you have not acquired the learning specified in this section.</i>		
No requirements listed		



**Module Content & Assessment**

**Indicative Content**

**General**

Supervised self-directed learning that addresses the learning outcomes specified for the module and which draws on the curriculum content as a whole.

**Health & Safety**

Risk Assessment of chemicals, biological materials, occupational hazards and associated procedures. MSDS sheets. Correct disposal methods for experimental material.

**Scientific Enquiry**

Experimental design. Research and selection of appropriate experimental protocols. Problem-solving and troubleshooting. Interpretation of resulting data and findings.

**Project Management**

Time management. Maintenance of experimental/project notebook. Organisational skills.

**Thesis Structure & Communication**

Components of a complete thesis. Writing skills. Poster design. Communication of project findings.

Assessment Breakdown	%
Course Work	100.00%

Course Work				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Presentation	Oral and/or written presentation on the project	1,2,3,4,5	20.0	Sem End
Written Report	Comprehensive Professional Report reflecting on the outcomes of the project	1,2,3,4,5	30.0	Sem End
Performance Evaluation	Marks associated with initiative, decision making, application and demonstration/performance of project outcomes over the duration of the project	1,2,3,4,5	50.0	Sem End

No End of Module Formal Examination

**Reassessment Requirement**

**Coursework Only**

*This module is reassessed solely on the basis of re-submitted coursework. There is no repeat written examination.*

**The institute reserves the right to alter the nature and timings of assessment**

**Module Workload**

<b>Workload: Full Time</b>				
<i>Workload Type</i>	<i>Workload Description</i>	<i>Hours</i>	<i>Frequency</i>	<i>Average Weekly Learner Workload</i>
Lecture	Instructional Lecture	0.5	Every Week	0.50
Independent & Directed Learning (Non-contact)	Independent work	13.0	Every Week	13.00
Lecturer-Supervised Learning (Contact)	Interaction with project supervisor	0.5	Every Week	0.50
Total Hours				14.00
Total Weekly Learner Workload				14.00
Total Weekly Contact Hours				1.00

**This module has no Part Time workload.**

<b>Module Resources</b>
<i>This module does not have any book resources</i>
<i>This module does not have any article/paper resources</i>
<i>This module does not have any other resources</i>

**Module Delivered in**

<b>Programme Code</b>	<b>Programme</b>	<b>Semester</b>	<b>Delivery</b>
CR_SAGBI_8	<a href="#"><u>Bachelor of Science (Honours) in Agri-Biosciences</u></a>	8	Mandatory
CR_SPHBI_8	<a href="#"><u>Bachelor of Science (Honours) in Pharmaceutical Biotechnology</u></a>	8	Mandatory