Module Definition Form (MDF)

Module code: MOD004875	**Version:** 8 **Date Amended:** 13/Jun/2024

1. Module Title
Undergraduate Project (BMS)

2a. Module Leader
Christopher O'Kane

2b. School
School of Life Sciences

2c. Faculty
Faculty of Science and Engineering

3a. Level
6

3b. Module Type
Project or dissertation (fine graded)

4a. Credits
30

4b. Study Hours
300

5. Restrictions

Type	Module Code	Module Name	Condition
Pre-requisite:	MOD002797	Preparation for Research (BMS)	Compulsory
Co-requisites:	None		
Exclusions:	None		
Courses to which this module is restricted:	Biomedical Science, Bioscience, Bioinformatics degree courses, Life Sciences framework		

LEARNING, TEACHING AND ASSESSMENT INFORMATION

6a. Module Description

As individuals on a science-based degree course you are expected to develop your research and employability skills. The Undergraduate Project module allows you to engage in a substantial piece of individual research, focused on a topic relevant to your specific discipline or career of your interest.

Applying the skills learnt in the Preparation for Research module, you will be able to plan a topic of research, provide a critical view on the current literature, design, carry out and trouble-shoot experiments and present your findings in both a written report and a seminar presentation. Throughout this module you will meet with your assigned supervisor who guide you through the process.

The project provides an opportunity to for you to showcase your talent and can be used as a springboard for your future career prospects. To this end you should be able to evidence a range of key skills; including self-management, teamwork, resilience and complex problem solving.

6b. Outline Content

- Planning a research project
  - Plan a programme of independent research
  - Organise an experimental plan for a specific type of project (meta-analysis, lab based, bioinformatics or other projects)
  - Develop aims and objectives for your chosen project
- Reviewing the literature
  - Develop the ability to critically analyse literature.
- Experimental design and execution
  - Test an original hypothesis
  - Carry out experimental procedures to realise your aims.
  - Work within the confines of ethical approval, and approved risk assessment and COSHH
- Data-analysis and presentation
  - Identify appropriate analytical tools, including statistical analysis and data presentation
- Writing a research project
  - Develop an extended scientific, written report.
  - To include; Abstract, Introduction, Methods, Results, Discussion and References.

6c. Key Texts/Literature

The reading list to support this module is available at: https://readinglists.aru.ac.uk/

6d. Specialist Learning Resources

Specific to each project.

7. Learning Outcomes (threshold standards)		
No.	**Type**	**On successful completion of this module the student will be expected to be able to:**
1	Knowledge and Understanding	Define your research project, identifying clear aims and objectives.
2	Knowledge and Understanding	Examine current literature appropriate to your research project, including collation, analysis and interpretation of the literature.
3	Knowledge and Understanding	Identify, select, justify the use of and apply appropriate experimental techniques and methods, in accordance with ethics and health and safety regulations.
4	Intellectual, practical, affective and transferrable skills	Develop your own style in the organisation and presentation of data, and apply statistics to support your findings.
5	Intellectual, practical, affective and transferrable skills	Critically evaluate your data and other evidence that justifies and supports conclusions and future recommendations.
6	Intellectual, practical, affective and transferrable skills	Present your research findings in a format appropriate for a scientific audience, including an oral presentation and written report.

8a. Module Occurrence to which this MDF Refers				
Year	**Occurrence**	**Period**	**Location**	**Mode of Delivery**
2025/6	ZZF	Template For Face To Face Learning Delivery		Face to Face

8b. Learning Activities for the above Module Occurrence			
Learning Activities	**Hours**	**Learning Outcomes**	**Details of Duration, frequency and other comments**
Lectures	8	1-6	8 x 1 hr Lectures
Other teacher managed learning	14	1-6	Initial training session 2 hrs; structured meetings with supervisors x 12
Student managed learning	278	1-6	Undertake and complete the requirements for the final year project
TOTAL:	300		

9. Assessment for the above Module Occurrence					
Assessment No.	**Assessment Method**	**Learning Outcomes**	**Weighting (%)**	**Fine Grade or Pass/Fail**	**Qualifying Mark (%)**
010	Coursework	1-6	100 (%)	Fine Grade	40 (%)
Dissertation: 4000 words, supported by presentation (1000 words-equivalent) and PDP component (500 words equivalent). (40 % Qualifying Mark as stipulated by the IBMS)					

Assessment components for Element 010				
Component No.	**Assessment Title**	**Submission Method**	**Weighting (%)**	**Components needed for Mark Calculation?**
010/1	PDP 500 words equivalent	Canvas	5 (%)	All
010/2	Seminar Presentation 1000 words equivalent	Canvas	10 (%)	
010/3	Dissertation 4000 words	Canvas	85 (%)	

In order to pass this module, students are required to achieve an overall mark of 40% (for modules at levels 3, 4, 5 and 6) or 50% (for modules at level 7*).

In addition, students are required to:
(a) achieve the qualifying mark for each element of fine graded assessment as specified above
(b) pass any pass/fail elements

[* the pass mark of 50% applies for all module occurrences from the academic year 2024/25 – see Section 3a of this MDF to check the level of the module and Section 8a of this MDF to check the academic year]