

Module Title:	Analytical Project and Workplace Planning
Language of Instruction:	English
Credits:	10
NFQ Level:	7
Module Delivered In	2 programme(s)
Teaching & Learning Strategies:	<p>Project topics will be decided at the beginning of the first semester by the student in consultation with the course lecturers. Topics may focus on biosciences, environmental, food & beverage, or analytical science. The student will be expected to produce a workplan to include: 1. Aims and objectives of the project 2. Actions necessary for the achievement of objectives 3. Sources of information to be used in the project 4. Project time plan (in consultation with the supervisor) This module will involve a large amount of laboratory work (60 hours) during which students will liaise and interact with supervisory staff and regularly report on progress. Analysis of results will be followed by the submission of a written project report. Learners will perform a presentation of their research project in a formal setting using appropriate audiovisual or online technologies. Lecturers and fellow students will have the opportunity to ask questions on the topic and the team of supervisors will assess the presentation. Additional approaches in the module will involve: Oral and verbal use of information technology and studio work. Hands on approach to course delivery. Working on own initiative and within a group environment. Role playing. Case studies. Problem solving approach where possible. Major emphasis on teamwork skills.</p>
Module Aim:	<p>To give the learner an insight in the area of project design, management, and execution, from idea generation to final outcome and interpretation of findings. To allow learners to apply their analytical research skills. To give the student an insight into the requirements of the modern work place and the prerequisites required for the transition from academic life to the work environment.</p>
Learning Outcomes	
<i>On successful completion of this module the learner should be able to:</i>	
LO1	Plan and implement a laboratory based analytical/research project; including choosing a topic, reviewing relevant literature/analytical methods, designing and planning the project, carrying out the required programme of experiments, and reporting and defending the project.
LO2	Liaise with supervisors and technical staff to plan a practical programme from week to week, adapt tasks as required, demonstrate technical problem solving abilities, and work collaboratively with peers to plan access to instrumentation.
LO3	Describe the various facets of a modern workplace and the transition from the academic to the workplace environment.
LO4	Demonstrate proficiency in working individually or within a team setting, time management and working to schedules, organisational and entrepreneurial skills, and an ability to "hit the ground running" within the workplace.
Pre-requisite learning	
Module Recommendations	
<i>This is prior learning (or a practical skill) that is recommended before enrolment in this module.</i>	
No recommendations listed	
Incompatible Modules	
<i>These are modules which have learning outcomes that are too similar to the learning outcomes of this module.</i>	
No incompatible modules listed	
Co-requisite Modules	
No Co-requisite modules listed	
Requirements	
<i>This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.</i>	
Successful completion of year 2 or equivalent	

Module Content & Assessment

Indicative Content

Project 1.1

Choice of project, idea generation, project proposal in consultation with course lecturers.

Project 1.2

Planning and literature survey to 'scope' the project. Safety issues, MSDS, ordering materials.

Project 1.3

Week by week work-plan, to facilitate optimum use of and exposure to various and relevant laboratory facilities and techniques which may include, analytical, microbiological, chemical biochemical and sensory techniques as appropriate

Project 1.4

Log book design, control, and operation

Project 1.5

Data treatment to integrate statistical evaluation

Project 1.6

Essential requirements for the transition from the academic to the work environment

Project 1.7

Methods of recruitment (job specific)

Project 1.8

Letter of application and curriculum vitae preparation (review, job specific) mock interview, demonstrate a passion

Project 1.9

Understanding the job requirements (technical and other)

Project 1.10

Communication skills, oral, written and presentation to groups

Project 1.11

Project presentations

Project 1.12

Basic entrepreneurial, marketing and business skills

Project 1.13.

Company structure within Ireland and beyond

Assessment Breakdown

	%
Continuous Assessment	30.00%
Project	70.00%

Special Regulation

Students must achieve a minimum grade (35%) in both the CA and project components.

Continuous Assessment

Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Presentation	Group presentation	3,4	15.00	n/a
Presentation	Individual presentation	3,4	15.00	n/a

Project

Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Project	Oral Presentation and Defence	1,2	10.00	Week 12
Project	Project report	1,2	60.00	Sem 2 End

No Practical

No End of Module Formal Examination

SETU Carlow Campus reserves the right to alter the nature and timings of assessment

Module Workload

Workload: Full Time		
<i>Workload Type</i>	<i>Frequency</i>	<i>Average Weekly Learner Workload</i>
Lecture	24 Weeks per Stage	1.00
Laboratory	24 Weeks per Stage	2.50
Estimated Learner Hours	24 Weeks per Stage	6.92
Total Hours		250.00

Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_SAPHA_B	Bachelor of Science (Honours) in Pharmaceutics and Drug Formulation	6	Mandatory
CW_SAASC_D	Bachelor of Science in Analytical Science	6	Mandatory