

<b>Module Title:</b>	Pharmaceutical Science
<b>Language of Instruction:</b>	English
<b>Credits:</b>	5
<b>NFQ Level:</b>	8
<b>Module Delivered In</b>	<a href="#">1 programme(s)</a>
<b>Teaching &amp; Learning Strategies:</b>	This module will be delivered via a one-hour lecture and a three-hour practical per week. . Students may be required to carry out assignments, give presentations and take multiple choice questions. Independent learning will be facilitated during the preparation of assignments, presentations and practicals.
<b>Module Aim:</b>	To understand the procedures in drug production from synthesis to finished product manufacture. To develop analytical procedures for routine pharmaceutical analysis. To understand drug registration requirements.

Learning Outcomes	
<i>On successful completion of this module the learner should be able to:</i>	
LO1	Understand the procedures in drug production from synthesis to finished product manufacture.
LO2	Develop analytical procedures for routine pharmaceutical analysis.
LO3	Understand drug registration requirements.
LO4	Validate existing drug manufacturing plant and instrumentation.

Pre-requisite learning	
<b>Module Recommendations</b> <i>This is prior learning (or a practical skill) that is recommended before enrolment in this module.</i>	
No recommendations listed	
<b>Incompatible Modules</b> <i>These are modules which have learning outcomes that are too similar to the learning outcomes of this module.</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.</i>	
No requirements listed	

## Module Content & Assessment

### Indicative Content

No indicative content

### Assessment Breakdown

	%
Continuous Assessment	10.00%
Practical	20.00%
End of Module Formal Examination	70.00%

### Continuous Assessment

Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Short Answer Questions	Regular written examinations to evaluate student understanding of course content	1,2,3,4	10.00	n/a

No Project

### Practical

Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Practical/Skills Evaluation	Dissolution studies of rapid release and controlled-release medications. Formulation of simple emulsion and tablets Assessment of physical stability. Assay development. 16. Use of conductivity to determine solubility products of a number of sparingly-soluble drugs. 17. Extraction by Soxhlet apparatus of podophyllin from podophyllum rhizomes.	1,4	20.00	Sem 1 End

### End of Module Formal Examination

Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Formal Exam	Final year evaluation	1,2,3,4	70.00	End-of-Semester

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

**Module Workload**

<b>Workload: Full Time</b>		
<i>Workload Type</i>	<i>Frequency</i>	<i>Average Weekly Learner Workload</i>
Lecture	30 Weeks per Stage	0.67
Practicals	30 Weeks per Stage	1.33
Total Hours		60.00

**Module Delivered In**

Programme Code	Programme	Semester	Delivery
CW_SASES_B	<a href="#">Bachelor of Science (Honours) in Environmental Science</a>	4	Mandatory