

SCIE H2120: Formulation Compounding

Module Title:			Formulation Compounding					
Language of Instruction:			English					
Credits: 5		5						
NFQ Level: 6		6						
Module Delivered In			No Programmes					
Teaching & Learning Strategies:			This module will be delivered via two one-hour lectures for fifteen weeks and one three-hour practical for te weeks. Students may be required to access the material via College networks in advance of the class and practicals to encourage active learning. To consolidate lectures and practicals, students will normally be required to carry out assignments, give presentations and answer multiple choice questions. Group and peer learning will be facilitated during the preparation of assignments, presentations and practicals. Any course-related issue or questions that may arise will be discussed at lectures. Online demonstrations will illustrate the key concepts of the course and will be available throughout the year. Digital resources such as Youtube, Reusable learning objects and the National Digital Learning Repository will be used as practicable					
Module Aim:			To give the student an insight into the requirements of formulation and compounding in the modern pharmacy.					
Learning Outcomes								
On successful completion of this module the learner should be able to:								
LO1	Discuss the procedures in drug production from synthesis to finished product manufacture.							
LO2	Develop and test a range of products containing pharmaceutical actives.							
LO3	Explain dr	ug reg	istration requirements.					
LO4	Evaluate a	and dis	scuss processes involved in drug manufacture and basic quality assurance					
Pre-requisite	elearning							
Module Recommendations This is prior learning (or a practical skill) that is recommended before enrolment in this module.								
No recommendations listed								
Incompatible		ch hav	e learning outcomes that are too similar to the learning outcomes of this module.					
No incompatible modules listed								
Co-requisite	Modules							
No Co-requisite modules listed								
Requirements This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.								
Successful completion of year 1 or equivalent								



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Module Content & Assessment

Indicative Content									
Oral dosage route Comminution, mixing, c	ompress	ion, granulation							
Insulins Formulation, storage ar	nd labellir	ng							
Sterile dosage forms Formulation, manufactu	ure and q	uality control. Clean rooms.							
Clinical trials Clinical trials. Blind and	double-b	plind trials, placebo effect							
Pulmonary medication									
Oral liquids Composition, manufacto	ure, stabi	ility evaluation							
Stability & shelf-life Aims, product specifica	tion, assa	ay							
Modified drug release Coatings and films, mat		l ion-exchangers							
Quality control Evaluation of tablets, ca	apsules, s	suppositories							
Other dosage forms Ophthalmic preparation	is. Enema	25							
		develop the required technical competencies earning via investigation of a problem, applic							
Assessment Breakdov	wn					%)		
Continuous Assessmen	nt					10.00%			
Practical							40.00%		
End of Module Formal Examination							50.00%		
Special Regulation									
Students must achieve	a minimu	um grade (35%) in both the practical/CA and	final examinat	ion.					
Continuous Assessme	ent								
Assessment Type		Assessment Description		Outcome addressed			% of total	Assessment Date	
Other		ICQ, assignments and practical work		1,2	1,2		10.00	n/a	
No Project									
Practical									
Assessment Type Assess		ment Description		Outcome addressed			% of total	Assessment Date	
		ous assessment will take the form of practical reports, ecific assignments			1,2			n/a	
End of Module Formal	l Examin	ation							
Assessment Type		Assessment Description	Outcome addressed		% of total	Assessment Date			

1,3,4

50.00

End-of-Semester

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

2 hour exam

Formal Exam



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Module Workload

Workload: Full Time								
Workload Type	Frequency	Average Weekly Learner Workload						
Lecture	30 Weeks per Stage	1.00						
Laboratory	30 Weeks per Stage	1.00						
Estimated Learner Hours	30 Weeks per Stage	1.67						
	Total Hours	110.00						