

MANU C2101: Formulation and Compounding 2

	University					
Module Title:		Formulation and Compounding 2				
Language of Instruction:		English				
Credits:	5					
Oreults.]3					
NFQ Level:	6					
Module Deli	vered In	1 programme(s)				
Teaching & Learning Strategies:		This module will be delivered via two one-hour lectures for twelve weeks and one two-hour practical for ten 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 Ou	utcomes					
On successf	ul completion of t	this module the learner should be able to:				
LO1	Discuss the pro	ocedures in drug production from synthesis to finished product manufacture.				
LO2	Develop and te	st a range of products containing pharmaceutical actives.				
LO3 Evaluate and discuss processes involved in drug manufacture and basic qua		iscuss processes involved in drug manufacture and basic quality assurance				
Pre-requisit	Pre-requisite learning					
	Module Recommendations This is prior learning (or a practical skill) that is recommended before enrolment in this module.					
No recomme	No recommendations listed					
	Incompatible Modules These are modules which have learning outcomes that are too similar to the learning outcomes of this module.					
No incompat	ible modules liste	ed				
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

Indicat	ive C	ont	ent
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Oral dosage route

Comminution, mixing, compression, granulation

Formulation, storage and labelling

Sterile dosage formsFormulation, manufacture and quality control. Clean rooms.

Clinical trials. Blind and double-blind trials, placebo effect

Pulmonary medications

Formulation and manufacture

Composition, manufacture, stability evaluation

Stability & shelf-life

Aims, product specification, assay

Modified drug release

Coatings and films, matrices and ion-exchangers

Quality control

Evaluation of tablets, capsules, suppositories

Other dosage forms
Ophthalmic preparations. Enemas

Practical

Practicals will allow students to develop the required technical competencies, attitudes and behaviours as well as problem-solving abilities and group skills promote deep learning via investigation of a problem, application of prior knowledge and analysis of results thus generating new knowledge.

Assessment Breakdown	%
Continuous Assessment	10.00%
Practical	40.00%
End of Module Formal Examination	50.00%

Special Regulation

Students must achieve a minimum grade (35%) in both practical/CA and final exam.

Continuous Assessment				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Other	MCQ, assignments and practical work	1,2	10.00	n/a

No Project

Practical					
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date	
Practical/Skills Evaluation	Continuous assessment will take the form of practical reports, and specific assignments	1,2	40.00	n/a	

End of Module Formal Examination					
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date	
Formal Exam	2 hour exam	1,3	50.00	End-of-Semester	



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Module Workload

Workload: Full Time				
Workload Type	Frequency	Average Weekly Learner Workload		
Lecture	12 Weeks per Stage	2.00		
Laboratory	12 Weeks per Stage	2.00		
Estimated Learner Hours	15 Weeks per Stage	5.13		
	Total Hours	125.00		

Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_SAPHA_C	Higher Certificate in Science in Pharmacy Technician Studies	4	Mandatory