

Module Title:	Drugs and How They Work 2
Language of Instruction:	English
Credits:	5
NFQ Level:	6
Module Delivered In	1 programme(s)
Teaching & Learning Strategies:	The material will be delivered in three, one-hour lectures per week. Pre-reading material and class notes will be on blackboard and students will be required to access the material prior to classes. Theory relating to pathology and pharmacology will be outlined in lectures. Regular quizzes and MCQs will consolidate lecture material. Case studies (in lectures and practical classes) will allow students to apply what they are learning and explore it's relevance to practice.
Module Aim:	On completion of this module, students will have gained knowledge, skills and competencies in principles of pathology (i.e. underlying mechanisms which cause disease) and pharmacology (i.e. how drugs work) relevant to a range of common medical conditions.

Learning Outcomes	
<i>On successful completion of this module the learner should be able to:</i>	
LO1	Describe in simple terms the underlying pathology of a range of common diseases, including factors contributing to an individual's risk.
LO2	Outline/list drugs used to treat/manage a range of conditions. Explain the basic mode of action and rationale behind the use of commonly prescribed drugs. (Students should be familiar with both generic and trade names of drugs.)
LO3	Describe common side effects and drug-drug interactions.
LO4	Provide basic advice to patients on the correct use of certain commonly prescribed drugs.

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>	
No requirements listed	

Module Content & Assessment

Indicative Content

Theory

Autonomic nervous system; basic physiology of the autonomic nervous system and neurotransmission therein. Overview of drugs which work by acting on the autonomic nervous system, including antimuscarinic agents, α blockers and β blockers.

Theory

Cardiovascular system; basic pathology of cardiovascular system, with emphasis on management of hypertension, dyslipidaemias, coronary heart disease (including angina, myocardial infarction), heart failure, arrhythmias and stroke. Overview of drugs used to treat/manage all above forms of cardiovascular disease; including antihypertensives, drugs used to treat heart failure, dyslipidaemias, arrhythmias, angina, myocardial infarction, stroke, anti-platelet agents, anticoagulants.

Theory

Gastrointestinal system; Basic pathology of peptic ulcer disease, gastro-oesophageal reflux disease, constipation, diarrhoea, irritable bowel disease and inflammatory bowel disease.

Theory

Drugs affecting the CNS; basic pathology and drugs used to treat Parkinson's Disease, pain syndromes, epilepsy, headache, migraine and glaucoma.

Theory

Drug abuse and dependence; overview of drug dependence and its management. Overview of drugs used to manage dependence and withdrawal from opioids, alcohol and nicotine.

Assessment Breakdown

	%
Continuous Assessment	50.00%
End of Module Formal Examination	50.00%

Continuous Assessment

Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Other	Weekly or two-weekly Blackboard quizzes. Mid-semester assessment, similar to end of semester examination [shorter duration].	1,2,3,4	50.00	n/a

No Project

No Practical

End of Module Formal Examination

Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Formal Exam	Exam	1,2,3,4	50.00	End-of-Semester

Continuous Assessment

Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Essay	Assignment	1,2,3,4	50.00	Sem 1 End

No Project

No Practical

End of Module Formal Examination

Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Formal Exam	Examination of all learning outcomes	1,2,3,4	50.00	End-of-Semester

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	12 Weeks per Stage	3.00
Estimated Learner Hours	15 Weeks per Stage	5.93
Total Hours		125.00

Workload: Part Time		
<i>Workload Type</i>	<i>Frequency</i>	<i>Average Weekly Learner Workload</i>
Lecture	Per Semester	0.64
Independent Learning Time	Per Semester	3.16
Work - based Learning	Per Semester	1.20
Total Hours		125.00

Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_SAPHA_C	Higher Certificate in Science in Pharmacy Technician Studies	2	Mandatory