	Reference AS2910	
	SCQF Level SCQF 8	
Module Title	SCQF Points 15	
Principles Of Pharmacology	ECTS Points 7.5	
	Created March 2011	
Keywords Drug metabolism, pharmacokinetics, drug action.	Approved August 2014	
	Amended	
	Version No. 1	

This Version is No Longer Current

The latest version of this module is available here

Prerequisites for Module

Successful completion of Stage One BSc (Hons) Biomedical Science Programme (or equivalent). Principals of pharmacokinetics. Routes of drug administration, bioavaialability, ADME (absorption, distribution, metabolism (cytochrome P450) and excretion).

Corequisite Modules

Indicative Student Workload

None.	Contact Hours Assessment	Full Time 2
Precluded Modules	Computer based exercises	6
None.	Laboratory based practicals	12
Aims of Module	Lectures	18
	Tutorials	4
To understand and apply principles of pharmacology in the context of disease processes and drug action.	Directed Study	40
Learning Outcomes for Module	Private Study	68

On completion of this module, students are expected to be able to:

- 1. Explain the basic principles of drug action.
- 2.Explain the absorption, distribution, metabolism and elimination of drugs.
- 3. Discuss the mode of action of selected groups of drugs.
- 4. Manipulate and interpret experimental data and to select and apply appropriate statistical techniques.

Indicative Module Content

Cell signalling and regulation, G-protein coupled receptors, nuclear hormone receptors, tyrosine kinase receptors, ligand-gated ion channels. Autonomic neurotransmitters; synthesis, metabolism, uptake and transporter systems. Cholinergic and adrenergic agonists and antagonists.

Mode of Delivery

Lectures with associated tutorials, computer-based exercises and laboratory practicals.

Assessment Plan

	Learning Outcomes	
	Assessed	
Component 1	1,2	
Component 2	3,4	

Component 2 is assessed by a formal laboratory report.

Component 1 is assessed by a class test.

Indicative Bibliography

- 1.HARVEY, R.A.et al. *Lippincott's Illustrated Reviews:*Pharmacology. Current Edition.

 Wolters Kluwer
- 2.GOLAN, D.E. et al. Fundamental Principles of Pharmacology: The Pathophysiologic Basis of Drug Therapy. Current Edition. Wolters Kluwer.
- 3.GOLAN, D.E. et al. *Principles of Pharmacology*. Current Edition. Baltimore: Lippincott, Williams and Wilkins.