

MODULE DESCRIPTOR

Module Title

Applied Pharmacology			
Reference	PL3904	Version	1
Created	April 2023	SCQF Level	SCQF 9
Approved	June 2023	SCQF Points	15
Amended	August 2021	ECTS Points	7.5

Aims of Module

To develop an understanding of pharmacological principles which underpin clinical biochemical and toxicological screening.

Learning Outcomes for Module

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

1 Recognise and discuss the pharmacological targets that may modulate biomarkers used in biochemical and toxicological screening.

Utilise knowledge and understanding acquired from Learning Outcome 1 to underpin the integration of pharmacological principles in the context of drug absorption, drug distribution, drug metabolism and

- excretion.
- 3 Manipulate, present, interpret and discuss experimental data based on knowledge from Learning Outcomes 1 & 2.

Indicative Module Content

Pharmacodynamics and pharmacokinetics of drugs of abuse using selected examples (including recreational drug use and performance enhancing drugs). Drug-receptor interactions outlining the roles of biotransformation and genetic polymorphisms in ADME. Biomarkers and drug metabolism, in clinical/toxicological screening.

Module Delivery

Lectures, coursework sessions (which include problem solving exercises, data collection and analysis), tutorial sessions and directed study (including use of pharmacological computer packages, directed reading and self-assessment exercises).

	Module Ref:	PL3904	v1
Indicative Student Workload		Full Time	Part Time
Contact Hours		40	N/A
Non-Contact Hours		110	N/A
Placement/Work-Based Learning Experience [Notional] Hours		N/A	N/A
TOTAL		150	N/A
Actual Placement hours for professional, statutory or regulatory boo	dy		

ASSESSMENT PLAN

If a major/minor model is used and box is ticked, % weightings below are indicative only.

Component 1					
Туре:	Coursework	Weighting:	100%	Outcomes Assessed:	1, 2, 3
Description:	Case Studies				

MODULE PERFORMANCE DESCRIPTOR

Explanatory Text

Component 1 (CW1) comprises 100% of the module grade. A minimum of Module Grade D is required to pass the module. Non-submission of either component will result in an NS grade.

Module Grade	Minimum Requirements to achieve Module Grade:
Α	A
В	В
С	C
D	D
E	E
F	F
NS	Non-submission of work by published deadline or non-attendance for examination

mpletion of Stage 2 of the course, or equivalent.

INDICATIVE BIBLIOGRAPHY

- BORON, W.F. and BOULPAEP, E.L. *Medical Physiology . 3rd Edition, 2016. Oxford: Saunders-Elsevier Science.*
- 2 GOLAN,D.E et al. *Principles of Pharmacology . 4th Edition, 2017. Baltimore: Lippincott, Williams and Wilkins.*
- 3 RITTER, J.M., et al. Rang and Dale's Pharmacology . 9th Edition, 2018: Elsevier.