

MODULE DESCRIPTOR

Module Title

Advances in Pharmaceutical Science and Practice

Reference	PLM004	Version	1
Created	April 2022	SCQF Level	SCQF 11
Approved	June 2022	SCQF Points	30
Amended	August 2021	ECTS Points	15

Aims of Module

To provide the student with the ability to appraise developing areas in the pharmaceutical sciences and clinical practice.

Learning Outcomes for Module

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

- 1 Discuss the principles underlying selected current developments in the pharmaceutical sciences and pharmacy practice.
- 2 Critically appraise novel stratified medicine to explore its advantages and disadvantages in clinical practice.
- 3 Critically evaluate aspects of pharmacology pertinent to the development of personalised medicines.
- 4 Evaluate literature in the pharmaceutical sciences and clinical practice, including presentation, analysis and appraisal of selected publications.

Indicative Module Content

This module will reflect forefront topics in both pharmaceutical sciences and clinical practice. Suggested topics may include: Pharmacogenomics; disease susceptibility; cell and gene therapy; immunotherapy; science of the practice of delivering biopharmaceuticals; personalised medicines; age related medicines; digital health.

Module Delivery

Lectures, coursework sessions (that include individual problem solving exercises and group based problem-based learning, tutorial sessions) and directed study (that include computer packages, directed reading and self-assessment exercises).

Indicative Student Workload

	Full Time	Part Time
Contact Hours	60	N/A
Non-Contact Hours	240	N/A
Placement/Work-Based Learning Experience [Notional] Hours	N/A	N/A
TOTAL	300	N/A
<i>Actual Placement hours for professional, statutory or regulatory body</i>		

ASSESSMENT PLAN

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

Component 1

Type:	Coursework	Weighting:	100%	Outcomes Assessed:	1, 2, 3, 4
Description:	A written assignment				

MODULE PERFORMANCE DESCRIPTOR**Explanatory Text**

A minimum of grade D or better is required to pass this module.

Module Grade	Minimum Requirements to achieve Module Grade:
A	When the grade for Component 1(CW1) is an A.
B	When the grade for Component 1(CW1) is a B.
C	When the grade for Component 1(CW1) is a C.
D	When the grade for Component 1(CW1) is a D.
E	When the grade for Component 1(CW1) is an E.
F	When the grade for Component 1(CW1) is an F.
NS	Non-submission of work by published deadline or non-attendance for examination

Module Requirements

Prerequisites for Module	Successful completion of MPharm Stage 3 or equivalent.
Corequisites for module	None.
Precluded Modules	None.

INDICATIVE BIBLIOGRAPHY

- 1 FLORENCE, A.T. and ATTWOOD, D., 2016. *Physicochemical Principles of Pharmacy*. Sixth Edition. London: Pharmaceutical Press.
- 2 HO, R.J.Y., GIBALDI, M., 2013. *Biotechnology and biopharmaceuticals: transforming proteins and genes into drugs*. Second edition. Hoboken, New Jersey : Wiley Blackwell.
- 3 TRENT, R.J., 2012. *Molecular medicine: genomics to personalised healthcare*. Fourth edition. San Diego: Elsevier Science & Technology.
- 4 GREENSTEIN, B., BROOK, D.A., 2011. *Biological therapeutics*. London: Pharmaceutical Press.