

## 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:
<b>A</b>	When the grade for Component 1(CW1) is an A.
<b>B</b>	When the grade for Component 1(CW1) is a B.
<b>C</b>	When the grade for Component 1(CW1) is a C.
<b>D</b>	When the grade for Component 1(CW1) is a D.
<b>E</b>	When the grade for Component 1(CW1) is an E.
<b>F</b>	When the grade for Component 1(CW1) is an F.
<b>NS</b>	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.