

## MODULE DESCRIPTOR

### Module Title

Advanced Biomedical Practice - Blood Science

Reference	ASM501	Version	1
Created	May 2021	SCQF Level	SCQF 11
Approved	December 2021	SCQF Points	30
Amended		ECTS Points	15

### Aims of Module

To enable the student to develop an advanced understanding of patient-centered laboratory practice in the field of Blood Sciences. To provide students with the knowledge and skills to address Blood Sciences service development in a clinical laboratory.

### Learning Outcomes for Module

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

- 1 Critically evaluate the impact of laboratory results, testing methodologies, and Standard Operating Procedures on patient pathways.
- 2 Critically appraise recent developments in the field of Blood Sciences, in relation to laboratory service improvement.
- 3 Critically discuss the role of multidisciplinary teaming on effective laboratory service provision in blood science.

### Indicative Module Content

Critical evaluation of clinical, diagnostic and research approaches within blood analytics, clinical chemistry, haemato-oncology, haemostasis and transfusion science. Consideration of best clinical laboratory practice, human factors and potential implications for both patients and laboratory staff. The case-study based teaching style will encourage the development of multidisciplinary communities of practice and complex problem-solving skills.

### Module Delivery

This module is delivered online with a mix of lectures and case study-based tutorials supplemented by directed reading.

**Indicative Student Workload**

	Full Time	Part Time
Contact Hours	20	20
Non-Contact Hours	280	280
Placement/Work-Based Learning Experience [Notional] Hours	N/A	N/A
TOTAL	300	300
Actual Placement hours for professional, statutory or regulatory body		

**ASSESSMENT PLAN**

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

**Component 1**

Type:	Coursework	Weighting:	70%	Outcomes Assessed:	1, 2
Description:	Students will be asked to critically analyse a clinical case study relating to Blood Sciences				

**Component 2**

Type:	Coursework	Weighting:	30%	Outcomes Assessed:	3
Description:	Poster				

**MODULE PERFORMANCE DESCRIPTOR****Explanatory Text**

The module is assessed using the two components of assessment detailed in the Assessment Plan. The y axis (vertical) represents Component 1 (case study) weighted as major (70%) and the x axis (horizontal) represents Component 2 (poster), weighted as minor (30%). A minimum of Module Grade D is required to pass the module, with some compensation of grade E in C1 or C2 permitted. Non-submission of either component will result in an NS grade.

		Coursework:						NS
		A	B	C	D	E	F	
Coursework:	A	A	A	B	B	B	E	
	B	B	B	B	C	C	E	
	C	B	C	C	C	D	E	
	D	C	C	D	D	D	E	
	E	D	D	D	E	E	E	
	F	E	E	E	E	F	F	
	NS	Non-submission of work by published deadline or non-attendance for examination						

**Module Requirements**

Prerequisites for Module	None, in addition to course entry requirements or equivalent.
Corequisites for module	None.
Precluded Modules	None.

**INDICATIVE BIBLIOGRAPHY**

- 1 QURESHI, R. 2015 *Introduction to transfusion science practice*. 6th ed. Manchester: BBTS.
- 2 KLEIN, H. and ANSTEE, D. 2014. *Mollison's blood transfusion in clinical medicine*. 12th ed. Chichester, West Sussex, UK : John Wiley and Sons, Inc.
- 3 BAIN, B.J., BATES, I., LAFFAN, M.A., LEWIS, S.M. 2017. *Dacie and Lewis practical haematology*. 12th ed. Philadelphia, Pa. : Elsevier.
- 4 SINGH, I., WESTON, A., and KUNDUR, A. 2017. *Haematology case studies with blood cell morphology and pathophysiology*. 1st ed. London, United Kingdom : Academic Press is an imprint of Elsevier.
- 5 MARSHALL, W., et al. 2014. *Clinical Biochemistry: Metabolic and Clinical Aspects*. 3rd ed. New York : Churchill Livingstone.
- 6 Detailed lists are provided by academic staff to reflect the subject matter.