Prifysgol Wrecsam
Wrexham University

Module specification

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Module Code	SCI726
Module Title	Professional Practice for the Biomedical & Clinical Sciences
Level	7
Credit value	20
Faculty	FAST
HECoS Code	100265
Cost Code	GAFS

Programmes in which module to be offered

Programme title	Is the module core or option for this programme
MSc Biomedical Science	Core
Postgraduate Certificate Biomedical Science	Option
MRes Applied Clinical Research	Core

Pre-requisites

None

Breakdown of module hours

Learning and teaching hours	21 hrs
Placement tutor support	0 hrs
Supervised learning e.g. practical classes, workshops	0 hrs
Project supervision (level 6 projects and dissertation modules only)	0 hrs
Total active learning and teaching hours	21 hrs
Placement / work based learning	0 hrs
Guided independent study	179 hrs
Module duration (total hours)	200 hrs

For office use only	
Initial approval date	17/8/23

For office use only	
With effect from date	01/09/23
Date and details of revision	
Version number	1

Module aims

The module aims to provide students with an in-depth understanding of current issues and developments for the biomedical and clinical sciences, and of the associated professional and regulatory bodies. It will also focus on the potential career pathways available to the postgraduate students.

Module Learning Outcomes - at the end of this module, students will be able to:

1	Critically analyse the roles of various regulatory bodies (*e.g*. IBMS, HCPC, HTA, NEQAS, UKAS - ISO15189 medical laboratory accreditation, *etc*.) and discuss the importance of clinical governance in the healthcare setting.
2	Demonstrate an advanced understanding of the professional practice for the biomedical and clinical sciences (*e.g.* NHS Scientist Training Programme, IBMS Specialist Portfolio, *etc*.).
3	Appreciate career pathways for the biomedical and clinical scientists, and the importance of Continuing Professional Development (CPD) for 'promoting lifelong learning' of the professional practitioner.

Assessment

Indicative Assessment Tasks:

Learning outcomes will be assessed in two parts, by the submission of a written evaluative report and presentation, specifically:

Assessment 1 – An evaluative report discussing the role(s) of various regulatory bodies (*e.g*. HCPC, NEQAS), professional practice and training (*e.g*. NHS STP training programmes) within the biomedical & clinical sciences (2400 words).

Assessment 2 – An oral presentation, which highlights the potential career pathways available for the biomedical and clinical scientists and Continuing Professional Development (CPD) for 'promoting lifelong learning' of the professional practitioner (equivalent to 1000 words).

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)
1	1-2	Written Assignment	60
2	3	Presentation	40

Derogations

N/A

Learning and Teaching Strategies

There will be a focus upon student discussion, seminars and student presentations to enable the students to become acquainted with a wider range of teaching and learning strategies. Lectures will be kept to a minimum and will be used to give factual information. There will be emphasis upon the use of the virtual learning environment, active contribution to the student forum and the posting of resources for peer support and use.

Indicative Syllabus Outline

- Institute of Biomedical Science (IBMS)
- Health and Care Professions Council (HCPC) and other regulatory bodies
- Continuing Professional Development (CPD)
- Healthcare Scientists (NHS Scientist Training Programme, Higher Specialist Scientist Training)
- Careers in Healthcare (academic, industry and NHS)
- United Kingdom Accreditation Service (UKAS)
- United Kingdom National External Quality Assessment Service (UK NEQAS)
- Human Tissue Authority (HTA)
- Medicines and Healthcare products Regulatory Agency (MHRA)
- Clinical governance
- Laboratory Automation and point-of-care testing
- NHS Improvement - 'hub-and-spoke' model
- Research & Development within the NHS

Indicative Bibliography:

Essential Reads

Ahmed, N., Glencross, H., and Wang, Q. (2022), *Biomedical science practice: Experimental & professional skills.* 3rd ed. Oxford, United Kingdom: Oxford University Press.

Pitt, S.J., & Cunningham, J.M. (2009), *An introduction to biomedical science in professional and clinical practice*. Chichester: Wiley-Blackwell.

Other indicative reading

Institute of Biomedical Science (www.ibms.org)

The Health and Care Professions Council (https://www.hcpc-uk.org/)

United Kingdom Accreditation Service (https://www.ukas.com)

Employability skills – the Glyndŵr Graduate

Each module and programme is designed to cover core Graduate attributes with the aim that each Graduate will leave the University having achieved key employability skills as part of

their study. The following attributes will be covered within this module either through the content or as part of the assessment. The programme is designed to cover all attributes and each module may cover different areas.

Core Attributes
Engaged
Creative
Ethical

Key Attitudes
Commitment
Curiosity
Resilience
Confidence

Practical Skillsets
Digital Fluency
Organisation
Critical Thinking
Emotional Intelligence
Communication