MODULE SPECIFICATION

Part 1: Information			
Module Title	Current Issues in Biomedical Research		
Module Code	USSKM7-30-M	Level	Level 7
For implementation from	2020-21		
UWE Credit Rating	30	ECTS Credit Rating	15
Faculty	Faculty of Health & Applied Sciences	Field	Applied Sciences
Department	HAS Dept of Applied Sciences		
Module type:	Standard		
Pre-requisites	None		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

Part 2: Description

Educational Aims: See Learning Outcomes

Outline Syllabus: The subject content of the module is divided into two main themes:

Key research areas in biomedicine: infection & immunity, vaccines, cancer, diabetes, dementia, neuroscience, genomic medicine, clinical research trials.

Research Methods: theoretical and hands-on practical skills sessions into state-of-the-art methodologies adopted in biomedical research.

Teaching and Learning Methods: Teaching and Learning Methods

Scheduled learning includes lectures and tutorials (online for 20/21) and practical sessions.

Lectures are delivered by research –active academic specialists, covering subject-specific knowledge of key impact research areas in biomedical science research.

Tutorial sessions will build upon the lecture material by engaging students in discussion and debate on specific research-related themes. Content will be based around peer-reviewed research publications, covering the latest developments in identified biomedical research areas.

Through interactive debate, students will develop their ability to read, interpret and critically discuss research, and contemporary viewpoints surrounding research.

Practical sessions, on advanced and applied biomedical analytical and research methods, encourage experiential learning. Students are able to develop their practical competencies and data-handling abilities in a context specifically relevant to applied biomedical science research. Students' key skills will be assessed via a laboratory assignment.

Student lectures and independent learning will be supported through the University Online Learning Environment (OLE; Blackboard) through provision of/direction to appropriate peer-reviewed publications to guide independent study.

The module will be studied over a single semester. 66 hours of scheduled learning will be delivered. Students are expected to undertake 234 hours of independent learning. Weekly learning will comprising a 2 hour lecture, a 1 hour tutorial, and a 3 hour practical/skills session.

Each student will give a presentation to staff members and their peers, on a contemporary important area in biomedical research.

Scheduled contact time will comprise:
11 x 2 hour lectures.
11 x 1 hour tutorials.
11 x 3 hour practical sessions.
1 x 6 hour poster presentation session.

Delivered as one day per week in Semester 1.

Part 3: Assessment

Component A is a single element consisting of a poster (plus oral defence) presentation under controlled conditions (online for 20/21). This component is designed to assess the student's ability to comprehend and present clearly a recently published research study in an area of biomedical science and to assess their knowledge of that area.

Component B comprises two elements:
(1) a review of a contemporary topic in biomedical research – designed to assess students' ability to research the literature, interpret and write about biomedical research.
(2) a summary report on 5 current issues in the applied sciences.

First Sit Components	**Final Assessment**	**Element weighting**	**Description**
Written Assignment - Component B		30 %	Review of a contemporary topic (1500 words)
Poster - Component A	✓	40 %	Poster presentation (20 minutes)
Report - Component B		30 %	Summary report on 5 current issues in the applied sciences (1000 words)
Resit Components	**Final Assessment**	**Element weighting**	**Description**
Written Assignment - Component B		30 %	Review of a contemporary topic (1500 words)
Poster - Component A	✓	40 %	Poster presentation
Report - Component B		30 %	Summary report on 5 current issues in the applied sciences (1000 words)

Part 4: Teaching and Learning Methods

Learning Outcomes

On successful completion of this module students will achieve the following learning outcomes:

Module Learning Outcomes	Reference
Demonstrate a systematic understanding and critical awareness of key developments and new insights at the forefront of Biomedical Research	MO1
Demonstrate a critical awareness of the philosophical and ethical issues involved in conducting Biomedical Research	MO2
Recognise and apply subject-specific theories, paradigms, concepts and principles	MO3
Demonstrate a comprehensive understanding of techniques applicable to their own research or advanced research in Biomedical Science	MO4
Use cognitive skills to interpret multiple lines of subject-specific evidence, formulate and test hypotheses, and make sound judgements even in the absence of complete data	MO5
Demonstrate originality in the application of knowledge, together with a practical understanding of how established techniques are used to interpret knowledge in Biomedical Science	MO6
Demonstrate competence and progressive development in core and advanced experimental research skills in biomedicine	MO7
Evaluate critically and give a clear and accurate account of a currently researched area in Biomedical Science, marshal arguments in a mature way and engage in debate and dialogue using appropriate scientific language	MO8

Contact Hours

Independent Study Hours:	
Independent study/self-guided study	234
Total Independent Study Hours:	234
Scheduled Learning and Teaching Hours:	
Face-to-face learning	66
Total Scheduled Learning and Teaching Hours:	66
Hours to be allocated	300
Allocated Hours	300

Reading List

The reading list for this module can be accessed via the following link:

https://uwe.rl.talis.com/index.html

Part 5: Contributes Towards
This module contributes towards the following programmes of study: