MODULE SPECIFICATION

Part 1: Information			
Module Title	Innovative Technology in Healthcare		
Module Code	USSJLF-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		
PSRB Requirements	None		

Part 2: Description
Overview: This module will provide the platform to introduce the Healthcare landscape and care pathways underpinned by the regulatory bodies and frameworks. The module will enable the student to understand the boundaries that guide the development on new Healthcare Technologies such as digital diagnostic and monitoring systems, and assistive and medical robots. It will also introduce the role of small-medium enterprise (SMEs) and multinationals in realising innovation in Healthcare. This module will be delivered over two semesters through a series of lectures, tutorials and practical classes. By the end of the module the students will be able to have a detailed knowledge of the Healthcare landscape, regulatory frameworks and how new innovative technology has to be designed in a manner that considers human factors (engineering and psychological).   **Educational Aims:** This module aims to provide the platform to introduce the Healthcare landscape and care pathways underpinned by the regulatory bodies and frameworks. **Outline Syllabus:** •   The Healthcare landscape and care pathways •   The role of multinationals and SMEs in Healthcare innovation

- Innovative Technologies for Healthcare
- Design, prototyping and adoption
- Communicating Technology
- Robotics in Healthcare

Teaching and Learning Methods: Lectures: This module will be delivered in integrated topic sections, where each section will provide the core knowledge that describes current regulatory frameworks.

Tutorials: These lectures will be followed by a series of tutorials that support collaborative, interactive discussion, which will help inform and prepare for assessment.   They are open to covering support material from research-based material to case studies. This approach ensures an applied delivery and opportunity to build as individuals.

Practical classes: Several classes will be included that are linked to the lecture series offering the students an applied understanding of each topic section.

Part 3: Assessment

There are three pieces of assessment: media clip with critical questioning (Component A) and two written reports (Component B, two case study-based reports). Formative feedback is provided through tutorial classes, where students will benefit from peer-peer learning.

COMPONENT A: The final piece of assessment will test the students understanding of how regulatory frameworks are important to the design, development and adoption of new technology. Here, using a media clip assessment (10 minutes) they will need to communicate how a product operates and articulate the regulatory frameworks that were required to design such a product. The media clip was chosen to develop student confidence when presenting and also develop their ability to scientifically converse.

COMPONENT B1: For case study 1 (1500 words) will assess core knowledge of the regulatory frameworks that govern existing technologies related to the Healthcare landscape.

COMPONENT B2: For case study 2 (1500), students will build on the knowledge obtained from the first case study and demonstrate how regulatory frameworks can be applied to new and innovative technologies.

First Sit Components	Final Assessment	Element weighting	Description
Presentation - Component A	✓	40 %	Presentation of Media Clip (10 minutes)
Case Study - Component B		30 %	Case study 1 (1500 words)
Case Study - Component B		30 %	Case study 2 (1500 words)
Resit Components	Final Assessment	Element weighting	Description
Presentation - Component A	✓	40 %	Media Clip (10 mins)
Case Study - Component B		30 %	case study (1500 words)
Case Study - Component B		30 %	Case study (1500 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**
	Evaluate how the regulatory frameworks govern the Healthcare landscape and apply these regulations to the development of new technologies (Component B1).	MO1
	Critically evaluate the role of regulatory frameworks with respect to the development of new and innovative technologies (Component B2).	MO2
	Critically evaluate how business and technology are integrated (B2).	MO3
	Write informed reports with a focus on the critical analysis of current and future regulatory frameworks (Component B1 and B2)	MO4
	Articulate key scientific concepts in a concise format (Component A)	MO5

Contact Hours	**Independent Study Hours:**	
	Independent study/self-guided study	228
	Total Independent Study Hours:	228
	Scheduled Learning and Teaching Hours:	
	Face-to-face learning	72
	Total Scheduled Learning and Teaching Hours:	72
	Hours to be allocated	300
	Allocated Hours	300

Reading List	*The reading list for this module can be accessed via the following link:* https://rl.talis.com/3/uwe/lists/7E01082F-6B34-56A7-AD77-6FC73A5CF651.html

Part 5: Contributes Towards

This module contributes towards the following programmes of study:

Health Technology [Sep][FT][Frenchay][1yr] MSc 2020-21

Health Technology [Sep][PT][Frenchay][2yrs] MSc 2020-21