

# **ACADEMIC SERVICES**

# **MODULE SPECIFICATION**

Part 1: Basic Data							
Module Title	Fundamental A	Fundamental Applications of Computed Tomography					
Module Code	UZYRMU-30-M		Level	М	Ver	sion	2
UWE Credit Rating	30 ECTS Credit Rating		15	WBL module? No			
Owning Faculty	Health and App	lied Sciences	Field	Allied Health Professions			
Department	Allied Health Pr	ofessions	Module Type	Professional Practice			
Contributes towards	CPD module						
Pre-requisites	None		Co- requisites	None			
Excluded Combinations	UZYSDL-20-M Clinical Protocols and Fundamental Applications of Computed Tomography		Module Entry requirements	Radiography professional qualification or relevant clinical Computed Tomography (CT) experience			
Valid From	September 201 September 201		Valid to	September 2021			

CAP Approval Date	24 March 2015		
	15 November		
	2016 (v2)		

	Part 2: Learning and Teaching			
Learning Outcomes	On successful completion of this module students will be able to:			
Cutodiffed	Critically evaluate CT protocols for various anatomical regions (Component A)			
	Demonstrate a critical knowledge of the legal, ethical and organisational aspects of current practice in Computerised Tomography (Component B)			
	<ul> <li>Critically evaluate contemporary research concerning CT technology in order to inform practice, and implement new approaches where appropriate (Component A)</li> </ul>			
	Critically evaluate the contribution that CT makes to diagnostic tests/procedures or radiotherapy practice, in the context of differential diagnosis (Component B)			
	<ul> <li>Perform a comprehensive range of CT procedures skillfully, safely, and to a high standard, demonstrating an ability to adapt effectively to new or unusual situations (Component A)</li> </ul>			
	Justify the contribution and the role of CT to the overall management of patients (Component B)			

# Clinical Protocols Syllabus Outline Rationale for the use, adaptation and development of CT acquisition protocols in diagnostic and radiotherapy CT units. Consideration for patient preparation including: Head, neck, neurology & ear, nose and throat (ENT) Cancer staging (neck. chest, abdomen & pelvis) Angiography Trauma (Head) Trauma / Orthopaedics Respiratory (pulmonary embolism / lung cancer/ 4DCT) Radiotherapy planning (including stereotactic frames) Cardiac imaging (fundamental knowledge) CT Colonography (screening & symptomatic) **Management and Organization** Consideration for organization and management of CT service provision Ethical and legal issues relating to CT practice, to include Ionising Radiation (Medical Exposures) Regulations (2017) (IR(ME)R) and Ionising Radiation Regulations (IRR) (2017). **Patient Care** Evaluate patient care, preparation and quality enhancement to service delivery Contrast the scanning requirements of specialist patient groups including anaesthetized, sedated and paediatric patients Appraise the use of contrast agents within CT relating to risk/ benefit issues and dealing with adverse reactions **Contact Hours** Contact hours will be achieved via blended learning education. This will be equivalent to 72 hours. Some material will be videoed lectures made available on Black-Board for all learners. Learners will have the option to attend these recordings but this will not be compulsory. Subject specific vodcasts with associated self-directed leaning tasks. Work based appraisal completion. Contact with the module leader for discussion of module related issues will be facilitated by e-mail, telephone conversations and discussion boards. Teaching and Learning Scheduled Learning. Teaching and learning methods will include, but not be limited Methods to, asynchronous delivery of lecture material through narrated presentations, notes and other guided reading, VLE discussion board fora with specific objectives, workplace tasks, and other study tasks deemed appropriate to the development of student knowledge. Formative feedback on allocated study tasks will be provided. Independent Learning. Includes hours engaged with essential reading, case study preparation, assignment preparation and completion etc. These sessions constitute an average time per level as indicated in the table below. Placement Learning. Students on this module will be working in the field of Computed Tomography. There will be competency based tasks to complete locally as per the clinical portfolio component. This will be assessed with on-site Mentors. **Key Information** Key Information Sets (KIS) are produced at programme level for all programmes that **Sets Information** this module contributes to, which is a requirement set by HESA/HEFCE. KIS are comparable sets of standardised information about undergraduate courses allowing prospective students to compare and contrast between programmes they are interested in applying for.

Key Information Set - Module data					
Number of	Number of credits for this module			30	
Hours to be allocated	Scheduled learning and teaching study hours	Independent study hours	Placement study hours	Allocated Hours	
300	72	180	48	300	

The table below indicates as a percentage the total assessment of the module which constitutes a -

Coursework: clinical portfolio of evidence with accompanying case-study evaluation

Please note that this is the total of various types of assessment and will not necessarily reflect the component and module weightings in the Assessment section of this module description:

Total assessment of the module:	
Written exam assessment percentage	0%
Coursework assessment percentage	100%
Practical exam assessment percentage	0%
	100%

### Reading Strategy

Any essential reading will be indicated clearly, along with the method for accessing it, e.g. students may be required to purchase a set text, be given a printed study pack or be referred to texts that are available electronically. Module guides will also reflect the range of reading to be carried out.

All students will be encouraged to make full use of the electronic resources available to them through membership of the University. These include a range of electronic journals and a wide variety of resources available through web sites and information gateways. The University Library's web pages provide access to subject relevant resources and services, and to the library catalogue. Many resources can be accessed remotely.

Students will be presented with opportunities within the curriculum to develop their information retrieval and evaluation skills in order to identify such resources effectively. Additional support is available through the iSkillZone available via the Library web pages:

http://iskillzone.uwe.ac.uk/RenderPages/RenderHomePage.aspx

This includes interactive tutorials on search skills and on the use of specific electronic library resources.

Further reading will be required to supplement textbooks and other suggested readings. The purpose of this further reading is to ensure students are familiar with current research and material specific to their requirements from the academic literature. Students are expected to identify all other reading relevant to their chosen topic for themselves. They will be required to read widely using the library search, a variety of bibliographic and full text databases, and Internet resources.

### Indicative Reading List

https://rl.talis.com/3/uwe/lists/561F77E6-F36D-9148-781D-

#### Part 3: Assessment

## **Assessment Strategy**

A practice based portfolio and a 2500 word written assignment will be used to assess the achievement of the learning outcomes.

### **Component A - Practice Based Portfolio**

This practice based assessment requires the production of a clinical portfolio of evidence

This portfolio must contain the following

- Record of clinical experience
- Clinical assessments of actual patient examinations

Further details are available in the module handbook.

Rationale: An opportunity for the student to demonstrate clinical competence. The portfolio is assessed in practice and marked as pass / fail as students need to meet a minimum requirement to practice safely at this level. The academic team will oversee and moderate the marking of the portfolio. There is opportunity for students to demonstrate progression of competencies (where appropriate) and receive formative feedback throughout practice.

## **Component B – Written Assignment**

2500 word case study

Rationale: an opportunity for the student to demonstrate an appreciation of the role of a CT Advanced practitioner and operator as defined by IR(ME)R regulations 2000.

Identify final assessment component and element	А			
% weighting between components A and B (Standard modules only)			B:	
First Sit				
Component A (controlled conditions)  Description of each element			Element weighting (as % of component)	
Clinical Portfolio of Evidence			/ Fail	
Component B Description of each element			Element weighting (as % of component)	
1. 2500 case study evaluation			100%	

Resit (further attendance at taught classes is not required)			
Component A (controlled conditions)	Element weighting		
Description of each element	(as % of component)		
1.Clinical Portfolio of Evidence	Pass/ Fail		
Component B Description of each element	Element weighting (as % of component)		
1. 2500 case study evaluation	100%		

If a student is permitted a retake of the module under the University Regulations and Procedures, the assessment will be that indicated by the Module Description at the time that retake commences.

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