

MODULE SPECIFICATION

		Part 1:	Information			
Module Title	Introduction to Radiotherapy and Oncology					
Module Code	UZYS1V-30-1		Level	Level 4		
For implementation from	2020-	-21				
UWE Credit Rating	30		ECTS Credit Rating	15		
Faculty	Faculty of Health & Applied Sciences		Field	Allied Health Professions		
Department	HAS	HAS Dept of Allied Health Professions				
Module Type:	Stanc	Standard				
Pre-requisites		None				
Excluded Combinations		None				
Co-requisites		None				
Module Entry Requirements		None				
PSRB Requirements		None				

Part 2: Description

Educational Aims: See learning outcomes.

Outline Syllabus: Study skills: How to retrieve information, using sources of evidence effectively

Principles of Oncology:

Epidemiology and aetiology of cancers. Characteristics of tumours, classification of malignant tumours, staging and grading. The biological basis of cancer formation, routes of spread.

Pre-treatment work up:

Role of clinical investigations in diagnosis. Basic imaging principles, the role of imaging (including cross sectional imaging) in diagnosis, radiotherapy planning and treatment monitoring. Introduction to radiotherapy treatment planning tools and protocols.

Aim of cancer management tools:

Radiotherapy modalities and overview of radiotherapy equipment, concept of radical, palliative, prophylactic and adjuvant treatments. Overview of the role of surgery, chemotherapy and

hormone therapy. Basic principles of pharmacology and the role of pharmaceuticals in managing radiotherapy side effects.

Radiotherapy procedures:

Oncological principles related to anatomical sites for common cancers. Treatment models for radical and palliative applications in cancer sites commonly treated with external beam radiotherapy.

Radiobiology:

Principles of radiobiology and fractionation, concept of tolerance doses.

External beam dosimetry:

Isodose charts, applied dose, mid-plane dose, multifield techniques, electrons, methods of beam modification, immobilisation devices.

Teaching and Learning Methods: Scheduled learning includes lectures and seminars, practical sessions on the VERT system and radiotherapy planning computers.

Independent learning includes hours engaged with essential reading, completion of workbooks and interactive online learning materials, assignment preparation, presentation preparation, revision.

Formative assessment presentations student led presentations which will be formatively assessed and linked to the component B assessment.

Students will engage in approximately 102 hours of contact time including key note lectures and practical sessions in small groups on the VERT system and radiotherapy planning computers (maximum 7-8 students per group). Students are timetabled 36 hours of self study for completion of tasks, workbooks and virtual patient simulation scenarios throughout the module, but are expected to do additional self study within their own time. In addition, email contact with staff is available throughout the module and during scheduled tutorial time.

Part 3: Assessment

Component A - Online open book examination (24 hour submission window).

Rationale: To allow assessment of a broad syllabus to ensure that students have the underpinning knowledge necessary for clinical practice at level 1.

Component B – 2500 word written case study reflecting upon formative assessment of student led group presentations.

Rationale: To enable students to demonstrate in-depth knowledge of particular aspects of radiotherapy and oncology management strategies and analyse these in accordance with research literature. Reflecting on learning from their group presentations and developing their written skills, will help prepare students for assessments at level 2.

First Sit Components	Final Assessment	Element weighting	Description
Examination (Online) - Component A	~	50 %	Online examination (24 hours)
Case Study - Component B		50 %	2500 word written case study

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Resit Components	Final Assessment	Element weighting	Description
Examination (Online) - Component A	~	50 %	Online examination (24 hours)
Case Study - Component B		50 %	2500 word written case study

	Part 4: Teaching and Learning Methods					
Learning Outcomes	On successful completion of this module students will achieve the follo	wing learning	outcomes:			
	Module Learning Outcomes					
	Explain the molecular basis of cancer development and progression					
	Describe the fundamental principles of external beam radiotherapy, including the radiobiological principles that underpin radiotherapy prescriptions					
	Explain the main treatment modalities used to treat cancer Describe the role of imaging modalities utilised in oncology					
	Describe the principles of oncology and cancer management strategi arrange of common anatomical sites	es, for	MO5			
	Demonstrate an understanding of the application of scientific, technic toxicity management principles in common cancers treated with exter radiotherapy		MO6			
Contact Hours	Independent Study Hours:					
	Independent study/self-guided study 1					
	Total Independent Study Hours: 1					
	Placement Study Hours:					
	Placement					
	Total Placement Study Hours:	ly Hours: 5				
	Scheduled Learning and Teaching Hours:					
	Face-to-face learning 1					
	Total Scheduled Learning and Teaching Hours:	10	102			
	Hours to be allocated 30					
	Allocated Hours	300				

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

https://uwe.rl.talis.com/modules/uzys1v-30-1.html

Part 5: Contributes Towards

This module contributes towards the following programmes of study: