



## MODULE SPECIFICATION

Part 1: Information			
Module Title	Intermediate Radiotherapy and Oncology Studies		
Module Code	UZYSYL-30-2	Level	Level 5
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 Dept of Allied Health Professions		
Module type:	Standard		
Pre-requisites	Introduction to Radiotherapy and Oncology 2020-21		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

Part 2: Description
<p><b>Overview:</b> Pre-requisite: UZYS1V-30-1 Introduction to Radiotherapy and Oncology</p> <p><b>Educational Aims:</b> See Learning Outcomes.</p> <p><b>Outline Syllabus:</b> The syllabus includes:</p> <p>Treatment Management and Patient Care:</p> <p>Oncological management of cancers that may require complex treatment strategies.</p> <p>Pharmacology, cytotoxic chemotherapy and hormone therapy, applications in practice and current regimes. Combination treatment rationales and schedules.</p> <p>Potential side effects of treatment and strategies for patient care, including assessment protocols, the role of specialist cancer services. The role of the radiographer within the healthcare team. Interprofessional relationships, communication and team working, extended roles.</p> <p>Professional boundaries and accountability, patient perspectives.</p> <p>Communication strategies and their application to practice including, recognising the vulnerable</p>

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patient, utilisation of verbal and non-verbal communication skills, information giving and receiving. Exploration of appropriate settings to undertake communication activities.

Radiotherapy Technique:

Equipment design, function and role in localisation and verification techniques.

Design features of new equipment and technologies.

Role of imaging modalities and imaging protocols throughout pre-treatment and treatment process.

Multifield isocentric techniques.

Principles, techniques, clinical applications and dosimetry of brachytherapy.

Electron and superficial treatment strategies.

IMRT and IGRT.

Quality Control Principles:

Treatment room design and radiation protection to include radiographer responsibility (IR(ME)R).

Patient immobilisation and consideration of tumour mobility to include patient preparation strategies and protocols.

Error management and quality assurance systems in radiotherapy.

Service improvement and implementation of new treatment techniques:

Proton therapy.

Implementation of new treatment techniques and protocols.

**Teaching and Learning Methods:** Scheduled learning includes lectures and seminars, practical sessions on the VERT system student led presentations (journal club). Formative assessment and feedback related to the assessment component will consist of group based discussions on the seen questions (assessment Component A).

Independent learning includes hours engaged with essential reading, interactive online learning materials, assessment preparation and revision. Students will have opportunity to gather evidence whilst on clinical practice to help support their learning for the summative assessment.

Contact Hours:

Students will engage in approximately 100 hours of contact time including key note lectures and practical sessions in small groups on the VERT system and journal club preparation 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 window for completion).

Rationale. To enable students to explore a number of topic areas given in advance in relation to the specified learning outcomes and to gather relevant sources of evidence to present within an exam setting to demonstrate their learning. The rationale for a seen exam is to ensure students are able to summarise and critique information succinctly within a set time frame. This skill will be useful for undertaking research critique for the dissertation and also for developing time management skills.

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Formative assessment opportunities to discuss the evidence found will be undertaken in a series of journal clubs and/or tutorials as well as opportunity to bring materials to key note sessions.

Students will have opportunity to gather evidence whilst on clinical practice to help support their learning for the summative assessment.

First Sit Components	Final Assessment	Element weighting	Description
Examination (Online) - Component A	✓	100 %	Online examination (24 hours)
Resit Components	Final Assessment	Element weighting	Description
Examination (Online) - Component A	✓	100 %	Online examination (24 hours)

### Part 4: Teaching and Learning Methods

Learning Outcomes	On successful completion of this module students will achieve the following learning outcomes:	
	<b>Module Learning Outcomes</b>	<b>Reference</b>
	Discuss the principles and applications of multi modal treatment strategies in the management of the patient with cancer	MO1
	Discuss radiographic imaging principles and evaluate imaging techniques and procedures performed in radiotherapy for localisation and verification throughout the pre- treatment and treatment process	MO2
	Evaluate the assessment protocols and communication strategies that radiographers and other health care professionals utilise in the management of patients and their treatment side effects	MO3
	Evaluate quality control principles within radiotherapy practice	MO4
	Explain factors to be taken into account in the installation of new radiotherapy service initiatives	MO5
Contact Hours	<b>Independent Study Hours:</b>	
	Independent study/self-guided study	200
	<b>Total Independent Study Hours:</b>	200
	<b>Scheduled Learning and Teaching Hours:</b>	
	Face-to-face learning	100
	<b>Total Scheduled Learning and Teaching Hours:</b>	100

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	<b>Hours to be allocated</b>	300
	<b>Allocated Hours</b>	300
Reading List	<i>The reading list for this module can be accessed via the following link:</i> <a href="https://uwe.rl.talis.com/modules/uzysyl-30-2.html">https://uwe.rl.talis.com/modules/uzysyl-30-2.html</a>	

### **Part 5: Contributes Towards**

This module contributes towards the following programmes of study:

Radiotherapy and Oncology [Sep][FT][Glenside][3yrs] BSc (Hons) 2019-20