

## Module Specification

### Module Summary Information

<b>1</b>	<b>Module Title</b>	Principles of Oncology and Radiotherapy
<b>2</b>	<b>Module Credits</b>	20
<b>3</b>	<b>Module Level</b>	4
<b>4</b>	<b>Module Code</b>	RAD4048

<b>5</b>	<b>Module Overview</b>
<p>As a therapeutic radiographer you will be required to employ your theoretical knowledge of cancer and its management. This will include a firm understanding of how cancer manifests itself in people, it's presenting signs and symptoms and its natural history. This module will provide you with the information you will require in your clinical duties, including information you need to communicate effectively via the use of accepted terminology, awareness of the patient cancer journey and the treatment planning and procedures involved with administration of radiotherapy.</p> <p>This module is designed to complement and articulate with the second semester level four module Radiotherapy Theory and Practice 1. You will be introduced to the core aspects of oncology, cancer management and the principles of radiotherapy treatment techniques and planning. The module also underpins study you will undertake during the second and third year of study such as the Radiotherapy Theory and Practice 2 module in the second year of the programme.</p> <p><b>Alignment with Programme Philosophy and Aims</b></p> <p>This module enables you to develop your understanding of the underlying theoretical concepts that underpin radiotherapy practice. Your increasing knowledge of oncology and the management of cancers within the human body will form the foundation of your developing clinical skills which includes accrual of practice competence, increasing practice autonomy and delivery of high standards of patient-focussed care.</p> <p><b>Learning and Teaching Strategy</b></p> <p>Teaching and learning activities will provide you with the underpinning theoretical basis for treatment of management of cancers and you will employ this knowledge within your clinical practice. Within the university setting you will be taught the principles of radiotherapy and cancer management, and will employ this knowledge during associated taught sessions for supporting modules. Classroom seminars and lectures will be supplemented with workshops where you will explore oncological and radiotherapy concepts involving hands on practical sessions, the university's radiotherapy treatment planning system and via the immersive VERT system. Alongside these academic activities you will be able to apply your developing understanding to your clinical practice and evidence your developing experience and skills within a clinical portfolio.</p>	

6	Indicative Content
	<ul style="list-style-type: none"> <li>• Foundations of oncology</li> <li>• Cancer management</li> <li>• Cancer signs and symptoms</li> <li>• The cancer patient journey</li> <li>• Principles of radiobiology</li> <li>• Foundations of radiotherapy treatment delivery</li> <li>• Principles of radiotherapy treatment techniques</li> </ul>

7		Module Learning Outcomes
<b>On successful completion of the module, students will be able to:</b>		
	1	Demonstrate an understanding of the principles of cancer genetics, epidemiology and aetiology.
	2	Demonstrate understanding of clinical management techniques and interventions used to treat cancer.
	3	Discuss the clinical application of radiation and treatment unit geometry.

8				Module Assessment
Learning Outcome				
		Coursework	Exam	In-Person
1,2,3		x		

9		Breakdown Learning and Teaching Activities
Learning Activities	Hours	
<b>Scheduled Learning (SL)</b> includes lectures, practical classes and workshops, peer group learning, Graduate+, as specified in timetable	40	
<b>Directed Learning (DL)</b> includes placements, work-based learning, external visits, on-line activity, Graduate+, peer learning, as directed on VLE	30	
<b>Private Study (PS)</b> includes preparation for exams	130	
<b>Total Study Hours:</b>	200	