

## Module Specification

### Module Summary Information

<b>1</b>	<b>Module Title</b>	Radiotherapy Theory and Practice 2
<b>2</b>	<b>Module Credits</b>	60
<b>3</b>	<b>Module Level</b>	5
<b>4</b>	<b>Module Code</b>	RAD5049

<b>5</b>	<b>Module Overview</b>
<p><b>Rationale</b></p> <p>This module is essential to further establish and consolidate your knowledge and understanding of cancer diagnoses, human anatomy &amp; physiology, radiotherapy planning and treatment delivery. This module builds on your understanding gained at level 4 and extends this knowledge to cover cancers that affect the bones, head and neck region, the haemopoetic, endocrine and nervous systems. Using your clinical practice to apply this learning. This will support the programme philosophy by allowing you to apply your developing knowledge and skills through a patient focussed approach.</p> <p>You will expand on your previous knowledge and understanding of the foundation principles of human anatomy, oncology, radiotherapy planning &amp; patient treatment delivery and care, which will provide you with the augmented skills required to develop your clinical practice experiences further. This module's content enhances your overarching understanding of clinical radiotherapy via direct links to theoretical content, therefore facilitating a greater integration of the academic and clinical components of the programme. You will develop your study skills and will take an analytical approach to the theory and practice of radiotherapy planning and administration.</p> <p>This module is important in helping you develop your underpinning knowledge of the radiotherapy process as a whole, in order to prepare you for on-going life-long learning and development within the vocation as a competent, patient focussed and autonomous qualified practitioner.</p> <p><b>Alignment with Programme Philosophy and Aims</b></p> <p>Within this module you will be undertaking further clinical practice placements within which you will develop those skills which will help you provide compassionate and patient-focussed skills. Reflection on placement experience will support your academic development as you consolidate your skills and understanding required of a therapeutic radiographer. You will continue to be an integral member of the multidisciplinary cancer care team and will start to discharge your clinical duties with a developing degree of professional autonomy as you progress toward practitioner status.</p> <p><b>Learning and Teaching Strategy</b></p> <p>This module employs a wide variety of approaches to learning and teaching. University-based taught sessions will comprise of lectures, seminars and group discussion. These will be supported by workshop session each week which will allow you to further your understanding of key concepts and radiotherapy practice. Workshop sessions including use of anatomy teaching resources (such as anatomical models and medical imaging), practical radiotherapy planning experience within the Department of Radiography's radiotherapy computer treatment planning facility, and the use of VERT which will enable you to explore the relationship between anatomy, dose distribution and radiotherapy delivery techniques. You will also access eLearning activities such as participation in Moodle forum discussions and quizzes.</p> <p>At this level of study all aspects of your own learning will be underpinned by your own wider reading and academic enquiry, and your module coordinators will help support the way in which you go about this.</p>	

### Assessment Strategy

Your understanding and knowledge of radiotherapy treatment techniques, management of oncological conditions and associated anatomy and physiology will be assessed via a three hour examination

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Your clinical skills (including radiotherapy treatment planning) will be evidenced within a clinical portfolio which is used to assess the level of your competence of radiotherapy practice.

### 6 Indicative Content

Anatomy and physiology, oncology, management, treatment planning and radiotherapy treatment technique for:

Upper respiratory system

Endocrine system

Neurological system

Integumentary system

Muscular skeletal system

Immune system

Haemopoetic system

Paediatrics

### 7 Module Learning Outcomes

**On successful completion of the module, students will be able to:**

1	Demonstrate knowledge of regional and cross sectional anatomy and physiology of anatomical structures outside of the torso.
2	Apply knowledge of the standard approaches of oncological management and radiotherapy in cancer patients whose disease is outside of the torso.
3	Generate, evaluate, critique and apply clinically acceptable radiotherapy plans.
4	Demonstrate safe and effective clinical practice based on the principles of effective treatment, holistic management and high quality care of service users.

### 8 Module Assessment

Learning Outcome	Coursework	Exam	In-Person
1-2		X	
3-4			X

<b>9 Breakdown Learning and Teaching Activities</b>	
<b>Learning Activities</b>	<b>Hours</b>
<b>Scheduled Learning (SL)</b> includes lectures, practical classes and workshops, peer group learning, Graduate+, as specified in timetable	136
<b>Directed Learning (DL)</b> includes placements, work-based learning, external visits, on-line activity, Graduate+, peer learning, as directed on VLE	404 + placement hours* *An additional 21 placement hours
<b>Private Study (PS)</b> includes preparation for exams	60
<b>Total Study Hours:</b>	600