

STUDENT AND ACADEMIC SERVICES

MODULE SPECIFICATION

Part 1: Basic Data						
Module Title	Introduction to R	Introduction to Radiotherapy and Oncology				
Module Code	UZYS1V-30-1		Level	1	Version	2
Owning Faculty	Health and Appl	ied Sciences	Field	Allied Health Professions		
Contributes towards	BSc (Hons) Radiotherapy and Oncology					
UWE Credit Rating	30 ECTS Credit Rating		15	Module Type	Standard	1
Pre-requisites	None		Co- requisites	None		
Excluded Combinations	None		Module Entry requirements	N/A		
Valid From	September 2017 (v2)		Valid to	September 2020		

CAP Approval Date	31 May 2017 (v2)

	Part 2: Learning and Teaching
Learning Outcomes	 On successful completion of this module students will be able to: Explain the molecular basis of cancer development and progression (Component A) Describe the fundamental principles of external beam radiotherapy, including the radiobiological principles that underpin radiotherapy prescriptions (Components A & B) Explain the main treatment modalities used to treat cancer (Components A & B)
	 Describe the role of imaging modalities utilised in oncology (Component A) Describe the principles of oncology and cancer management strategies, for a range of common anatomical sites (Components A & B) Demonstrate an understanding of the application of scientific, technical and toxicity management principles in common cancers treated with external beam radiotherapy (Components A & B)
Syllabus Outline	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 monito protocols.	oring. Introdu	ction to radioth	erapy treatmo	ent planning	tools and		
	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 rad	Radiobiology Principles of radiobiology and fractionation, concept of tolerance doses.						
	Isodose charts, a	External beam dosimetry Isodose charts, applied dose, mid-plane dose, multifield techniques, electrons, methods of beam modification, immobilisation devices.						
Contact Hours	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 (max 7-8 students per group). Students also attend a clinical visit to a local radiotherapy department (in small groups). 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.							
Teaching and Learning Methods	 Scheduled learning includes lectures and seminars, practical sessions on the VERT system and radiotherapy planning computers, and a visit to a local radiotherapy department. Independent learning includes hours engaged with essential reading, completion of workbooks and interactive online learning materials, assignment preparation, presentation preparation, revision etc. Formative assessment presentations student led presentations which will be 							
Key Information Sets Information	formatively assessed and linked to the component B assessment Key Information Sets (KIS) are produced at programme level for all programmes that 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 Inform	ation Set - Mo	odule data					
	Number of	credits for this	smodule		30			
	Hours to be allocated	Scheduled learning and teaching study hours	Independent study hours	Placement study hours	Allocated Hours			
	300	102	193	5	300	\bigcirc		
	The table below constitutes a -	indicates as a	a percentage t	he total asses	sment of the	module wh	lich	

	Written Exam: Unseen written exam, open book written exam, In-class test Coursework: Written assignment or essay, report, dissertation, portfolio, project Practical Exam: Oral Assessment and/or presentation, practical skills assessment, practical exam					
	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 50%					
	Coursework assessment percentage 50%					
	Practical exam assessment percentage 0%					
	100%					
Reading						
Strategy	Core readings Any essential reading will be indicated clearly, along with the method for accessing it, e.g. students may be expected to purchase a set text, be given a study pack or be referred to texts that are available electronically, or in the Library. Module guides will also reflect the range of reading to be carried out. Further readings All students are encouraged to read widely using the library catalogue and					
	Internet resources. Many resources can be accessed remotely. Guidance to some key authors and journal titles available through the Library will be given in the Module Guide and updated annually.					
	Access and skills Formal opportunities for students to develop their library and information skills are provided within the induction period. Additional support is available through the Library Services web pages, including interactive tutorials on finding books and journals, evaluating information and referencing. Sign-up workshops are also offered by the Library.					
Indicative Reading List	The following list is offered to provide validation panels/accrediting bodies with an indication of the type and level of information students may be expected to consult. As such, its currency may wane during the life span of the module specification. <i>Current</i> advice on additional reading will be available via the module guide or Blackboard pages.					
	Barratt, A., Dobbs, J., Morris, S., and Roques, T. (2009) <i>Practical Radiotherapy Planning</i> [online] 4 th Ed. London: Hodder Arnold. [Accessed 15 September 2014]					
	Cancer Research UK (2014) <i>CancerStats: Cancer statistics for the UK</i> . Available from http://www.cancerresearchuk.org/cancer-info/cancerstats/. [Accessed 15 September 2014] Department Of Health (2012) <i>Radiotherapy Services in England</i> . Available from: https://www.gov.uk/government/publications/radiotherapy-services-in-england-2012. [Accessed 15 September 2014]					
	Department Of Health (2012) <i>Improving Outcomes: A strategy for cancer</i> . Available from: <u>https://www.gov.uk/government/publications/improving-outcomes-a-strategy-for-cancer</u> . [Accessed 15 September 2014]					
	Hoskins, P. (2012) <i>Radiotherapy in Practice: External Beam Therapy</i> [online] 2 nd ed. Oxford: Oxford University Press. [Accessed 15 September 2014]					
	Symonds, P., Deehan, C., Meredith, M., and Mills, J. (2012) <i>Walter and Miller's Textbook of Radiotherapy</i> [online] London: Churchill Livingstone. [Accessed 15 September 2014]					

	Part 3: Assessment
Assessment Strategy	Component A – 2 hour written examination. 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.

Identify final assessment component and element	Compone	ent A		
		A:	B :	
% weighting between components A and B (Star	50%	50%		
First Sit				
Component A (controlled conditions)			Element weighting	
Description of each element				
1. 2 hour written exam			100%	
Component B		Element v	weighting	
Description of each element				
1. 2500 word written case study			100%	

Resit (further attendance at taught classes is not required)	
Component A (controlled conditions) Description of each element	Element weighting
1. 2 hour written exam	100%
Component B Description of each element	Element weighting
1. 2500 word written case study	100%

If a student is permitted an **EXCEPTIONAL RETAKE** of the module the assessment will be that indicated by the Module Description at the time that retake commences.

FOR OFFICE USE ONLY

First CAP Approv	val Date	30 April	2015		
Revision CAP Approval Date	31 May 2	2017	Version	2	Link to RIA 12319