



CORPORATE AND ACADEMIC SERVICES

MODULE SPECIFICATION

Part 1: Basic Data					
Module Title	Radiotherapy and Oncology Theory and Practice				
Module Code	UZYSWS-30-M	Level	M	Version	1
Owning Faculty	Faculty of Health and Applied Sciences	Field	Allied Health Professions		
Contributes towards	MSc Radiotherapy and Oncology				
UWE Credit Rating	30	ECTS Credit Rating	15	Module Type	Professional Practice
Pre-requisites	None		Co- requisites	None	
Excluded Combinations	UZYSGL-40-M Radiotherapy Technology and Oncology Practice	Module Entry requirements	None		
Valid From	January 2016		Valid to	January 2021	

CAP Approval Date	6 October 2015
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Part 2: Learning and Teaching	
Learning Outcomes	<p>On successful completion of this module students will be able to:</p> <ol style="list-style-type: none"> 1. Apply oncological principles to tumours requiring more complex management strategies (Component A&B) 2. Critically evaluate multi-modality treatment strategies for a range of malignancies in the management of the patient with cancer (Component A&B) 3. Critically evaluate a range of imaging techniques performed in radiotherapy for localisation, planning and verification (Component A&B) 4. Produce and evaluate treatment plans for common treatment sites (Component A) 5. Critically appraise the principles and applications of brachytherapy (Component B) 6. Critically evaluate the radiographers role in the context of the inter-professional team in the management of radiotherapy patients (Component A&B)

	<p>7. Analyse the radiographers role in health promotion and education demonstrating an understanding of the patient pathway for a range of conditions (Component A&B)</p>
<p>Syllabus Outline</p>	<p>Treatment Management</p> <ul style="list-style-type: none"> • Oncological management of tumours that may require complex treatment strategies (e.g. malignancies of the head and neck and gynaecological system) • Application of radiobiological principles in the administration of radiotherapy for standard and non-standard treatment strategies, including brachytherapy. Application of fractionation schedules and tolerance doses • Pharmacology, cytotoxic chemotherapy and hormone therapy, applications in practice and current regimes. <p>Radiotherapy Technique</p> <ul style="list-style-type: none"> • Equipment design, function and role in localisation and verification techniques • New developments in imaging modalities; evaluation of implementation of imaging systems and protocols • Multifield isocentric techniques and dosimetry of specific malignancies • Principles, techniques, clinical applications and dosimetry of brachytherapy • Superficial (including electron and photon) techniques and dosimetry <p>Quality control principles</p> <ul style="list-style-type: none"> • Treatment room design and radiation protection • Patient immobilisation and consideration of tumour mobility • Error management and quality assurance systems in radiotherapy. • The role of the radiographer within the healthcare team. <p>Interprofessional relationships, communication and team working, extended roles. Professional boundaries and accountability, patient perspectives.</p> <p>Professional portfolio to include evidence of: management of a wide variety of patients with cancer from the pre-treatment stage to radiotherapy delivery; adoption of appropriate professional and ethical behaviour; application of current radiation regulations, health and safety policies and guidelines for practice.</p>
<p>Contact Hours</p>	<p>This module contains a professional practice component, 150 notional hours are allocated to the academic theory content.</p> <p>This module will be timetabled over 11 weeks (theory only, not practice) and will include 6 hours a week of delivery which will be a mixed approach of small group practical sessions using VERT and the radiotherapy computer planning system, lectures and seminars.</p>

	<p>In addition to this, blending learning is key to the success of learning for this module and independent study will be needed to be completed. This will be approximately 84 hours.</p> <p>Placement Prior to placement there is the delivery of clinical documentation (including Professional code of conduct) and clinical skills sessions (e.g. Basic Life Support and Manual Handling). Whilst on placement there are support visits by a link liaison lecturer.</p> <p>Students will engage in a 14 week clinical practice placement at a designated Radiotherapy department within the Southwest region. This will include one half days study per week (excluding bank holiday weeks). The total working week will be equivalent to 37.5 hours. This is approximately 472.5 hours (not including bank holidays).</p> <p><i>Students will be informed prior to placement if they are required to go for a period of time during the placement to another clinical site. This is to ensure they gain the breadth of experience needed for assessment of competency.</i></p> <p>Students are expected to attend a desirable minimum of 90% of clinical practice time and an absolute minimum of 80% of clinical practice time as stipulated by The Society and College of Radiographers in order to meet professional requirements satisfactorily. https://www.sor.org/learning/document-library/student-radiographer-attendance-management-guidelines/student-radiographer-attendance-management (members only access).</p>
Teaching and Learning Methods	<p>Scheduled learning includes lectures, discussion groups, practical sessions on the VERT system and student led presentations. Formative assessment and feedback related to the assessment component will consist of group based discussions on the seen questions (assessment Component B).</p> <p>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.</p> <p>Placement learning involves rotating around a number of radiotherapy areas (please see placement documentation) undertaking approximately 472.5 hours clinical time. Bank holidays occur during this time period and therefore no half days will be taken during these weeks in order to increase clinical time. Clinical competencies are assessed by qualified Practice Educators within a Radiotherapy department.</p>
Key Information Sets Information	<p>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.</p>

Key Information Set - Module data				
Number of credits for this module				30
Hours to be allocated	Scheduled learning and teaching study hours	Independent study hours	Placement study hours	Allocated Hours
300	66	84	472.5	622.5

The table below indicates as a percentage the total assessment of the module which constitutes a -

Written Exam: seen written exam

Coursework: portfolio

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%
Portfolio assessment percentage		50%
Practical exam assessment percentage		0%
		100%

Reading Strategy

Core reading

Any core 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 reading

All students are encouraged to read widely using the library search, a variety of bibliographic and full text databases 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 handbook and updated annually. Assignment reference lists are expected to reflect the range of reading carried out.

Access and skills

Students are expected to be able to identify and retrieve appropriate reading based on their transferable skills learnt from the previous science/health related degree. However, this module offers an opportunity

	<p>to further consolidate their information skills. Students will be given the opportunity to attend library sessions on areas they require additional support with such as using appropriate databases and search skills. Online support is available through the library web pages, including interactive tutorials on finding books and journals, evaluating information and referencing.</p>
Indicative Reading List	<p>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 change during the life span of the module specification. Current advice on additional reading will be available via the module handbook or Blackboard pages.</p> <p>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]</p> <p>College of Radiographers (2013) <i>Code of Professional Conduct</i>. Available from: http://www.sor.org/learning/document-library/code-professional-conduct [Accessed 15 September 2014]</p> <p>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]</p> <p>Department Of Health (2012) <i>Improving Outcomes: A strategy for cancer</i>. Available from: https://www.gov.uk/government/publications/improving-outcomes-a-strategy-for-cancer. [Accessed 15 September 2014]</p> <p>Health and Care Professions Council (2012) <i>Standards of Conduct, Performance and Ethics</i>. Available from: http://www.hcpc-uk.org.uk/aboutregistration/standards/standardsofconductperformanceandethics/index.asp. [Accessed 15 September 2014]</p> <p>Hoskins, P. (2012) <i>Radiotherapy in Practice: External Beam Therapy</i> [online] 2nd ed. Oxford: Oxford University Press. [Accessed 15 September 2014]</p> <p>O'Toole, G. (2012) <i>Communication: core interpersonal skills for health professionals</i>, Elsevier, London.</p> <p>Symonds, P. and Walter, J. (2012) <i>Walter and Miller's Textbook of Radiotherapy</i> [online] London: Churchill Livingstone. [Accessed 15 September 2014]</p>

Part 3: Assessment

Assessment Strategy	
	Component A: To consist of a portfolio of critically evaluative case studies and prescribed clinical competencies based on the Society

	<p>and College of Radiographers (SCOR) Education Framework and Health and Care Professions Council (HCPC) Standards of Proficiency for Radiographers. The critically evaluative case studies are undertaken as identified in the practice assessment document.</p> <p>Rationale: An opportunity for the student to demonstrate clinical competence in line with the requirements of the SCOR Education Framework and HCPC Standards of Proficiency for Radiographers, through formative and summative assessment. These competencies build upon the previous objectives in placement 1 to ensure the students have gained proficiency in all areas to the required standard. The portfolio is assessed in practice and marked as pass / fail as students need to meet a minimum requirement to practice safely at this level. The academic team will oversee the marking of the clinical evaluations of the case studies. There is opportunity for students to receive formative feedback throughout the placement.</p> <p>Component B assesses the theoretical principles and by having seen exam questions, the students can use their critical reading and writing skills to develop detailed discussions.</p> <p>During the theory part of this module, students will be undertaking formative assessment in the form of a wiki. This will incorporate anatomy, oncology and technical aspects of the module. The students will get an opportunity to present this to their peers and receive feedback. They will also continue their portfolio of evidence of practical skills related to radiotherapy computerised/ dosimetry planning which was started in the first module - Science and Technology in Radiotherapy.</p>

Identify final assessment component and element	A	
% weighting between components A and B (Standard modules only)	A:	B:
First Sit		
Component A (controlled conditions) Description of each element	Element weighting (as % of component)	
1. Clinical Portfolio	Pass/Fail	
Component B Description of each element	Element weighting (as % of component)	
1. Seen written exam (2hrs)	100	

Resit (further attendance at taught classes is not required)	
Component A (controlled conditions) Description of each element	Element weighting (as % of component)
1. 1. Clinical Portfolio	Pass/Fail
Component B Description of each element	Element weighting (as % of component)

1. 1. Seen written exam (2hrs)	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.	