



**CORPORATE AND ACADEMIC SERVICES**

**MODULE SPECIFICATION**

Part 1: Basic Data					
Module Title	Radiotherapy Imaging in Practice				
Module Code	UZYSYM-15-3	Level	3	Version	1
Owning Faculty	Health and Applied Sciences	Field	Allied Health Professions		
Contributes towards	BSc (Hons) Radiotherapy and Oncology				
UWE Credit Rating	15	ECTS Credit Rating	7.5	Module Type	Project
Pre-requisites	UZYSYL-30-2 Intermediate Radiotherapy and Oncology Studies, UZYSYK-30-2 Radiotherapy Professional Practice 2	Co- requisites	None		
Excluded Combinations	None	Module Entry requirements	N/A		
Valid From	September 2015	Valid to	September 2021		

<b>CAP Approval Date</b>	30 April 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> <ul style="list-style-type: none"> <li>Evaluate the rationale for imaging used in radiotherapy practice (component A)</li> <li>Compare and contrast the different technologies used in imaging in radiotherapy (Component A)</li> <li>Critique clinical reasoning skills needed to assess images acquired during radiotherapy (Component A)</li> <li>Critically evaluate the future role of imaging in radiotherapy (Component A)</li> </ul> <p>Indicative learning outcome:</p> <ul style="list-style-type: none"> <li>Identify relevant anatomy and pathological changes seen in imaging (Component A).</li> </ul>
Syllabus Outline	<ul style="list-style-type: none"> <li>Principles of radiotherapy imaging to include: verification methods and, computer systems (hard and software), Image preparation and</li> </ul>

	<p>matching, correction strategies</p> <ul style="list-style-type: none"> <li>• Nature of the imaging inter-professional team working to include the roles of the: Oncologist, Physicist, Radiographer, manufacturers and Radiation Protection Supervisor. Configuration and commissioning of imaging systems</li> <li>• Technological developments to include: the role of research and audit</li> <li>• Cross sectional imaging and anatomy</li> </ul>																														
Contact Hours	<ul style="list-style-type: none"> <li>• 36 hours to include lectures, small seminar discussion groups, VERT practical sessions, online tutorial support and online discussion groups</li> </ul>																														
Teaching and Learning Methods	<p><b>Scheduled learning</b> includes lectures, seminars, tutorials, demonstrations, practical classes and workshops using VERT</p> <p><b>Independent learning</b>, includes hours engaged with pre-reading, poster preparation and completion, preparation for discussion groups. Students will be expected to engage via Blackboard and undertake formative assessments prior to and during the module delivery to assess their learning and feedback progress.</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> <table border="1" data-bbox="459 1102 1369 1496"> <thead> <tr> <th colspan="5">Key Information Set - Module data</th> </tr> <tr> <td colspan="4">Number of credits for this module</td> <td>15</td> </tr> <tr> <th>Hours to be allocated</th> <th>Scheduled learning and teaching study hours</th> <th>Independent study hours</th> <th>Placement study hours</th> <th>Allocated Hours</th> </tr> </thead> <tbody> <tr> <td>150</td> <td>36</td> <td>114</td> <td>0</td> <td>150</td> </tr> </tbody> </table> <p>The table below indicates as a percentage the total assessment of the module which constitutes a -</p> <p><b>Coursework:</b> defended poster</p> <table border="1" data-bbox="571 1713 1264 1944"> <thead> <tr> <th colspan="2">Total assessment of the module:</th> </tr> </thead> <tbody> <tr> <td>Written exam assessment percentage</td> <td>0%</td> </tr> <tr> <td>Coursework assessment percentage</td> <td>100%</td> </tr> <tr> <td>Practical exam assessment percentage</td> <td>0%</td> </tr> <tr> <td></td> <td>100%</td> </tr> </tbody> </table>	Key Information Set - Module data					Number of credits for this module				15	Hours to be allocated	Scheduled learning and teaching study hours	Independent study hours	Placement study hours	Allocated Hours	150	36	114	0	150	Total assessment of the module:		Written exam assessment percentage	0%	Coursework assessment percentage	100%	Practical exam assessment percentage	0%		100%
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Reading Strategy	<b>Core reading</b>																														

	<p>It is essential that students read one of the many texts on research methods available through the Library. Module handbooks will also reflect the range of reading to be carried out.</p> <p><b>Further reading</b></p> <p>Students are expected to identify all other reading relevant to their chosen research topic for themselves. They will be 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.</p> <p><b>Access and skills</b></p> <p>The development of literature searching skills is supported by a Library seminar provided within the first semester. These level three skills will build upon skills gained by the student whilst studying at levels one and two. Additional support is available through the library web pages, including interactive tutorials on finding books and journals, evaluating information and referencing. Sign-up workshops are also offered by the Library.</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 wane during the life span of the module specification. However, as indicated above, <i>current</i> advice on readings will be available via the module handbook.</p> <p>Bourland, J.D. (2012) <i>Image-guided radiation therapy</i>. London, Boca Raton: CRC.</p> <p>Hoskin, P.J. &amp; Goh, V. (2010) <i>Radiotherapy in practice: imaging</i>. Oxford : Oxford University Press.</p> <p>Murphy, M.J. (2012) <i>Adaptive motion compensation in radiotherapy</i>. Boca Raton, Florida : CRC Press.</p>

Part 3: Assessment	
Assessment Strategy	<p>Component A Element 1: Poster. Rationale: To allow students to critically explore a topic area of their choice in relation to the learning outcomes. A poster will demonstrate the student's ability to analyse and evaluate information to then select the most relevant work, to adhere to the concise writing style of a poster. At level 3, the aim would be for students to produce a poster of a standard to present at conference; to demonstrate their findings.</p> <p>Component A, Element 2: 1500 word supporting paper. Rationale: To allow students to critically explore a specific part of the poster in further depth which will enable them to undertake synthesis and analysis of the topic area.</p>

Identify final assessment component and element	<b>Component A</b>	
% weighting between components A and B (Standard modules only)	<b>A:</b> 100%	<b>B:</b>

<b>First Sit</b>	
<b>Component A (controlled conditions)</b> <b>Description of each element</b>	<b>Element weighting</b> <b>(as % of component)</b>
1. Poster	40%
2. 1500 word supporting paper	60%
<b>Component B</b> <b>Description of each element</b>	<b>Element weighting</b> <b>(as % of component)</b>

<b>Resit (further attendance at taught classes is not required)</b>	
<b>Component A (controlled conditions)</b> <b>Description of each element</b>	<b>Element weighting</b> <b>(as % of component)</b>
1. Poster	40%
2. 1500 word supporting paper	60%
<b>Component B</b> <b>Description of each element</b>	<b>Element weighting</b> <b>(as % of component)</b>
If a student is permitted an <b>EXCEPTIONAL RETAKE</b> of the module the assessment will be that indicated by the Module Description at the time that retake commences.	