

**MODULE SPECIFICATION**

Part 1: Information			
Module Title	Fundamental Applications of Magnetic Resonance Imaging		
Module Code	UZZY4P-30-M	Level	M
For implementation from	January 2018		
UWE Credit Rating	30	ECTS Credit Rating	15
Faculty	Health and Applied Sciences	Field	Allied Health Professions
Department	Allied Health Professions		
Contributes towards	MSc Advanced Practice Continuing Professional Development Module		
Module type:	Professional Practice		
Pre-requisites	None		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	Radiography professional qualification or relevant clinical Magnetic Resonance Imaging (MRI) experience		

Part 2: Description
<p>This distance learning, practice-based module aims to provide students with the necessary knowledge to support and develop their clinical practice in Magnetic Resonance Imaging (MRI). This will enable students to apply this knowledge in a safe and appropriate manner that offers a quality service to patients.</p> <p>The syllabus includes:</p> <p>Clinical Protocols Examination design considerations Rationale for the use, adaptation and development of MR acquisition protocols in diagnostic and radiotherapy MRI units including: Head, neck, neurology & ear, nose and throat (ENT) Cancer staging Angiography Trauma Orthopaedics Respiratory Radiotherapy planning (including stereotactic frames) Cardiac imaging (fundamental knowledge) MR Colonography MR Mammography</p>

MR Urography

Management and Organization

Consideration for organization and management of MRI service provision
Ethical and legal issues relating to MRI practice

Patient Care

Evaluate patient care, preparation and quality enhancement to service delivery
Recognize the scanning requirements of specialist patient groups including anaesthetized, sedated and paediatric patients
Appraise the use of contrast agents, both IV and oral, within MRI relating to risk/ benefit issues and dealing with adverse reactions

Contact hours will be achieved via blended learning education.

Scheduled Learning: This will be equivalent to 32hours and will include:

- 4 contact days which will consist of lectures and small group work.
- Scheduled tutor support. Typically via Skype, email or by telephone

Independent Learning;

To include keynote lectures, but not be limited to, asynchronous delivery of lecture material through narrated presentations, notes and other guided reading, VLE discussion board fora with specific objectives, workplace tasks, and other study tasks deemed appropriate to the development of student knowledge. Independent learning will include hours engaged with essential reading, case study preparation, assignment preparation and completion etc. These sessions constitute an average time per level as indicated in the table below
Formative feedback on allocated study tasks will be provided.

- Placement learning. Students on this module will be working in the field of MRI. There will be competency based tasks to complete locally as per the clinical portfolio component. This will be assessed with on-site Mentors
- Work based appraisal completion.

Contact with the module leader for discussion of module related issues will be facilitated by e-mail, telephone conversations and discussion boards

Part 3: Assessment**Component A - Clinical Portfolio of Evidence**

This practice based assessment requires the production of a clinical portfolio of evidence. This portfolio will contain the following:

- Record of clinical experience
- Clinical assessments of patient examinations

Rationale: An opportunity for the student to demonstrate clinical competence. 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 and moderate the marking of the portfolio. There is opportunity for students to receive formative feedback on progression from mentors during clinical practice.

Component B – 2500 word Written Assignment

2500-word case study

Rationale: an opportunity for the student to demonstrate a critical understanding and appreciation of the role of an MRI Advanced practitioner and operator. Students will have the opportunity for formative feedback.

Identify final timetabled piece of assessment
(component and element)

Component B

% 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 of Evidence		Pass/Fail																										
Component B Description of each element		Element weighting (as % of component)																										
1. 2500-word case study		100%																										
Resit (further attendance at taught classes is not required)																												
Component A (controlled conditions) Description of each element		Element weighting (as % of component)																										
1. Clinical Portfolio of Evidence		Pass/Fail																										
Component B Description of each element		Element weighting (as % of component)																										
1. 2500-word case study		100%																										
Part 4: Teaching and Learning Methods																												
Learning Outcomes	<p>On successful completion of this module students will be able to:</p> <ul style="list-style-type: none"> Critically evaluate MRI protocols for various anatomical regions (Component A) Demonstrate a critical knowledge of the legal, ethical and organisational aspects of current practice in MRI (Component B) Critically evaluate contemporary research concerning MR technology in order to inform practice, and implement new approaches where appropriate (Component B) Critically evaluate the contribution that MRI makes to diagnostic tests/procedures or radiotherapy practice, in the context of differential diagnosis (Component B) Safely perform a comprehensive range of MRI procedures, demonstrating an ability to adapt effectively to new or unusual situations (Component A) Justify the contribution and the role of MRI to the overall management of patients (Component A&B) 																											
Key Information Sets Information (KIS)	<table border="1"> <thead> <tr> <th colspan="5">Key Information Set - Module data</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </thead> <tbody> <tr> <td colspan="4"><i>Number of credits for this module</i></td> <td style="border: 2px solid black; color: red;">30</td> </tr> <tr> <td>Hours to be allocated</td> <td>Scheduled learning and teaching study hours</td> <td>Independent study hours</td> <td>Placement study hours</td> <td>Allocated Hours</td> </tr> <tr> <td style="color: red;">300</td> <td style="color: red;">32</td> <td style="color: red;">220</td> <td style="color: red;">48</td> <td style="color: red;">300</td> </tr> </tbody> </table>			Key Information Set - Module data										<i>Number of credits for this module</i>				30	Hours to be allocated	Scheduled learning and teaching study hours	Independent study hours	Placement study hours	Allocated Hours	300	32	220	48	300
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300	32	220	48	300																								
Contact Hours																												
Total Assessment	<p>The table below indicates as a percentage the total assessment of the module which constitutes a;</p> <p>Coursework: Written assignment or essay, report, dissertation, portfolio, project or in class test</p>																											

	Total assessment of the module:			
	Written exam assessment percentage		0%	
	Coursework assessment percentage		100%	
	Practical exam assessment percentage		0%	
			100%	
Reading List	https://uwe.rl.talis.com/lists/BE330D5C-8106-FB45-0FD9-949AC8FAC36D.html			

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First ASQC Approval Date	31 October 2017			
Revision CAP Approval Date		Version	1	Link to RIA 12383