University of the West of England
BRISTOL

ACADEMIC SERVICES

MODULE SPECIFICATION

Part 1: Basic Data						
Module Title	Advanced Imaging Studies					
Module Code	UZYSXG-15-3		Level	level 3	Version	1
Owning Faculty	Health and Applied Sciences		Field	Allied Health Professions		
Contributes towards	BSc (Hons) Diagnostic Imaging					
UWE Credit Rating	15 credits	ECTS Credit Rating	7.5	Module Type	Project	
Pre-requisites	Intermediate Diagnostic Imaging Theory UZYS1P-30-2 Science and Instrumentation in Diagnostic Imaging UZYS1N-15-2 Diagnostic Imaging Clinical practice 2 UZY-SXL-30-2		Co- requisites	None		
Excluded Combinations	None		Module Entry requirements	None		
Valid From	September 2015		Valid to	September 2021		

CAP Approval Date	30 April 2015

Part 2: Learning and Teaching	
Learning Outcomes	On successful completion of this module students will be able to: 1. Critically appraise the role of modern imaging modalities and their application in clinical practice (Component A) 2. Critically evaluate the efficacy of imaging procedures alongside alternative examinations utilising imaging modalities. (Component A) 3. Demonstrate a critical knowledge and understanding of the technological aspects of imaging modalities, including the use of pharmacological agents, to assist with the procedures (Component A) 4. Explore alternative communication strategies through the creation of a scientific poster (Component A)
Syllabus Outline	<u>Imaging equipment and practice</u> • Design and function of diagnostic imaging equipment and accessories and

<table>
<tr><td></td><td>their application to practice.
• The design specifications, function and fitness for role of the modern imaging modalities and their application in practice.
<u>Anatomy, disease and clinical applications in radiography</u>
• Promote a broad understanding of cranial and body cross-sectional anatomy
• Common clinical applications/pathologies,
• Patient care and radiographic procedures that involve the use of contrast media and pharmacological agents
• Evaluate the efficacy of these procedures alongside alternative examinations utilising other imaging modalities</td></tr>
<tr><td>Contact Hours</td><td>36 hours scheduled contact time. There will be a series of study days including lectures, and seminars related to each specialist activity e.g. MRI, NM, US, CT and IV plus tutorials on the production of a poster.</td></tr>
<tr><td>Teaching and Learning Methods</td><td>• Scheduled learning includes lectures, practical sessions with x-ray equipment vodcasts, seminars and tutorial.
• Independent learning includes hours engaged with essential reading, poster preparation and completion etc. These sessions constitute an average time per level as indicated in the table below.</td></tr>
<tr><td>Key Information Sets Information</td><td>Key Information Sets (KIS) are produced at programme level for all programmes that this module contributes to, which a requirement is 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.
<u>Key Information Set - Module data</u>
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
The table below indicates as a percentage the total assessment of the module which constitutes a -
Coursework: Poster
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:</td></tr>
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Written exam assessment percentage	0%
Coursework assessment percentage	100%
Practical exam assessment percentage	0%
	100%

Reading Strategy	**Core reading** It is essential that students read one of the many texts on imaging technologies and related patient care available through the Library. Module handbooks will also reflect the range of reading to be carried out. Learners will also be sign-posted to relevant professional documentation produced by the College of Radiographers **Further reading** Students are expected to identify all other reading relevant to their chosen poster 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. **Access and skills** 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.
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. However, as indicated above, current advice on readings will be available via the module handbook. • Carver, E & Carver, B (2012) *Medical Imaging: Techniques, Reflections and Evaluation.* 2nd ed. Churchill Livingstone: UK. • Gibbs, V., Cole, Sassano, A. (2009) *Ultrasound Physics and Technology*. *How, Why and When?* Churchill: Livingstone • Royal College of Radiologists. (2010) *Standards for Intravascular Contrast Agent Administration for Adult Patients.* Available at: https://www.rcr.ac.uk/docs/radiology/pdf/BFCR(10)4_Stand_contrast.pdf • College of Radiographers (2011) *Course of Study for the Certification of Competence in Administering Intravenous Injections.* 2nd ed. College of Radiographers: London • Seernam, E. 2009) *Computed Tomography: Physical Principles, Clinical Applications and Quality* Control. 3rd. ed. Saunders-Elsevier: USA • Westbrook, C; Kaut-Roth, C & Talbot, J (2011) *MRI in Practice*. 4th ed. Wiley-Blackwell: United Kingdom

Part 3: Assessment	
Assessment Strategy	The production of a poster prepares for submissions to conference for Continuing Professional Development post-registration.

	It lends itself to the need for concise critical evaluation, analysis and synthesis of information gained in clinical placement linking practice to theory. The production of a poster suitable for conference presentation also enhances the research activity. The supporting paper will enable further critical evaluation of one aspect of the poster topic.

Identify final assessment component and element	**Component A Element 2**	
% weighting between components A and B (Standard modules only)	**A:** **50%**	**B**: **50%**

First Sit	
Component A (controlled conditions) **Description of each element**	**Element weighting**
1. Poster	50%
2. 1500 word supporting paper	50%

Resit (further attendance at taught classes is not required)	
Component A (controlled conditions) **Description of each element**	**Element weighting**
1. Poster	50%
2. 1500 word supporting paper	50%

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.