

# University of the West of England

## Module Specification

Revised December 2009

<b>Title</b>	Intermediate Diagnostic Imaging Studies
<b>New Code</b>	UZYS9U-40-2
<b>Version</b>	4.1
<b>Level</b>	2
<b>UWE Credit Rating</b>	40
<b>ECTS Credit Rating</b>	20
<b>Module Type</b>	Professional Practice
<b>Module Leader</b>	STEWART, R
<b>Owning Faculty</b>	Faculty of Health and Life Sciences, Health and Social Care
<b>Faculty Committee approval</b>	HSC Quality and Standards Committee
<b>Faculty Committee approval Date</b>	
<b>Approved for Delivery by</b>	
<b>Field</b>	Allied Health Professions
<b>Field Leader</b>	Dianne Rees
<b>Valid From</b>	01/09/2009 00:00:00
<b>Discontinued From</b>	
<b>Pre-requisites</b>	UZYS6K-20-1 Principles of Diagnostic Imaging UZYRHP-30-1 Radiographic Science
<b>Co-requisites</b>	None
<b>Entry requirements:</b>	
<b>Excluded combinations</b>	None
<b>Learning Outcomes</b>	

### *Knowledge and understanding*

- demonstrate an understanding and application of the theoretical principles which underpin diagnostic imaging (Component A)
- evaluate the comparative radiation dose in the utilisation of different radiographic techniques (Component B element 1)
- understanding the relevant pharmacology of contrast agents and drugs commonly used in diagnostic imaging (Component B element 2)

### *Intellectual skills*

- demonstrate the ability to integrate academic and clinical learning, and evaluate these findings within the context of contemporary research (Component B elements 1 and element 2)

### *Subject, professional and practical skills*

- conduct the radiographic examination in a safe and efficient manner (Component A)
- develop and exhibit the skills of critical appraisal with respect to image quality (Component A and Component B element 2)
- organise effective patient care with due respect for their individual needs (Component A)
- demonstrate competency in clinical skills (Component A)

### *Transferable skills*

- accept personal responsibility for achieving the standards of professional behaviour as expressed in the Code of Professional Conduct (College of Radiographers, 1994). (Component A)
- demonstrate a proactive approach to problem-solving in a clinical setting (Component A and Component B element 1)
- examine the role of the radiographer in the context of the healthcare team (Component B element 1)
- demonstrate an ability to work independently within a legal and ethical framework (Component A)

## **Syllabus Outline**

### **Anatomy, disease and clinical applications in radiography**

Promote a broad understanding of anatomy/physiology, common clinical applications/pathologies, patient care and radiographic procedures that involve the use of contrast media; evaluate the efficacy of these procedures alongside alternative examinations utilising other imaging modalities: to demonstrate the following anatomical systems:

digestive;

urinary;

hepato-biliary;

introduction to cardio-vascular;

musculo-skeletal;

### **Specialised imaging areas:**

accident and emergency;

mammography;

interventional procedures;

maxillo-facial/orthodontic procedures;

operating theatre and mobile radiography.

### **Special patient needs:**

psycho-social aspects of patients with special needs in a multi-cultural society (children, elderly, pregnancy, physically challenged)

### **Pharmacology:**

pharmacodynamics

pharmacokinetics

contrast media;

contrast reaction drugs;

other drugs commonly used in diagnostic imaging

### **Radiobiology:**

cell development and disorders

neoplasia and oncogenesis  
spread patterns of malignant disease  
the effects of radiation  
cell survival curves  
risk versus benefit of various techniques  
dose and dose limitation

**Health and safety issues:**

Radiation protection, infection control, basic life skills  
Legal and ethical frameworks e.g. Manual handling, Health and Safety at Work, Ionising Radiation Regulations

**Radiographic practice:**

Development of skills on organisation and management of radiographic practice within a team framework

**Teaching and Learning Methods**

A variety of approaches will be used which may include problem-based learning, case studies and scenarios, key lectures, student-led seminars and discussions, practice-based learning, objective-led competencies, supervised practice

**Reading Strategy**

Students will be directed to reading which is either available electronically or provided for them in a printed study pack. Directed pre-reading will be expected for a number of sessions to inform discussion. All students will be encouraged to make full use of the print and electronic resources available to them through membership of the university. These include a range of electronic journals and a wide variety of resources available through the web sites and information gateways. The University library web pages provide access to subject relevant resources and services and to the library catalogue. Many resources can be accessed remotely. Students will also be expected to read more widely by identifying relevant material using the module handbook, the library catalogue and resources such as a variety of on-line databases.

The reflective work log (Component B Element 1) will require students to identify relevant reading material individually and this needs to be reflected in the reference list. Students are supported in their literature searching skills by sign-up library workshops and additional support is available through UWEOnline. This includes interactive tutorials on search skills and on the use of specific electronic library resources.

Any essential reading will be clearly indicated along with the method for accessing it. This guidance will be available in the module handbook or via information on UWEOnline. If further reading is expected, this will be clearly indicated, together with information on how to access it.

## Assessment

Where necessary, and appropriate, an alternative medium of assessment may be negotiated.

**Weighting between components A and B (standard modules only) A: % B:%**

### Attempt 1

#### First Assessment Opportunity (Sit)

Component A

Element	Description	Element Weighting
1	Clinical portfolio to include clinical appraisals	Pass/Fail

Component B

Element	Description	Element Weighting
1	2500 word reflective work log	100%
2	OSCE 1.5 hours	100%

**In order to pass the module, students must achieve an average of 40% or over for component B including a mark of at least 35% in each of the elements.**

#### Second Assessment Opportunity (ReSit)

Attendance is not required

Component A

Element	Description	Element Weighting
1	At the discretion of the Award Board	Pass/Fail

Component B

Element	Description	Element Weighting
1	2500 word reflective log	100%
2	OSCE 1.5 hours	100%

**In order to pass the module, students must achieve an average of 40% or over for component B including a mark of at least 35% in each of the elements.**

Exceptional Second Attempt (Retake)

Attendance is not required