



## **Module Specification**

# Fundamentals of Radiographic Imaging Technique

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## Part 1: Information

**Module title:** Fundamentals of Radiographic Imaging Technique

**Module code:** UZYYDQ-30-1

**Level:** Level 4

**For implementation from:** 2023-24

**UWE credit rating:** 30

**ECTS credit rating:** 15

**Faculty:** Faculty of Health & Applied Sciences

**Department:** HAS School of Health and Social Wellbeing

**Partner institutions:** None

**Field:** Allied Health Professions

**Module type:** Module

**Pre-requisites:** None

**Excluded combinations:** None

**Co-requisites:** None

**Continuing professional development:** No

**Professional, statutory or regulatory body requirements:** None

## Part 2: Description

**Overview:** This module will provide you with an overview of the main working areas of a diagnostic radiography department including general radiographic techniques and imaging equipment.

**Features:** Not applicable

**Educational aims:** This module will provide you with an overview of the main working areas of a diagnostic radiography department including general radiographic techniques and imaging equipment.

**Outline syllabus:** Professional Skills

Theoretical principles of radiographic techniques and protocols including the qualitative assessment of the resultant images for the:-

Axial and appendicular skeleton,

Thoracic and abdominal cavities,

Respiratory and cardiovascular systems.

Patient preparation and care.

Basic image interpretation.

Radiation Protection

Practical methods of dose measurements

Dose reduction and applied radiation protection

Pregnancy checks

Radiographic Imaging

Theoretical principles of the imaging process and methods of image production.

Image manipulation, viewing, storage and transfer.

Departmental Routine

Radiography department workflows and organisation.

### **Part 3: Teaching and learning methods**

**Teaching and learning methods:** Teaching will be supported and guided by independent study in the form of pre- lecture preparation tasks and post lecture learning tasks to consolidate knowledge. These may include, but are not limited to quizzes, work books, interactive TEL (technology enhanced learning) based activities, self-directed investigation of topics and other bespoke activities. Guided independent study will support the module, but typically the equivalent of 4 hours of lectures per week including technique practical and image viewing.

**Module Learning outcomes:** On successful completion of this module students will achieve the following learning outcomes.

**MO1** Describe and assess the principal anatomical features on skeletal (appendicular and axial), chest and abdominal images including pathology and normal variants

**MO2** Demonstrate an understanding of the concepts of image quality and their relationship with exposure selection, image manipulation, viewing, processing and storage

**MO3** Demonstrate an awareness of personal responsibility in achieving the standards of professional behaviour as expressed in current standards and codes of conduct

**MO4** Demonstrate knowledge of the radiographic imaging procedures, equipment and image processing for the skeleton, chest and abdomen including adaptive techniques where necessary

**Hours to be allocated:** 300

**Contact hours:**

Independent study/self-guided study = 228 hours

Face-to-face learning = 72 hours

Total = 300

**Reading list:** The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://rl.talis.com/3/uwe/lists/D088F3CB-F314-2C01-0A62-56E76095AA35.html) via the following link <https://rl.talis.com/3/uwe/lists/D088F3CB-F314-2C01-0A62-56E76095AA35.html>

## Part 4: Assessment

**Assessment strategy:** Both summative assessment tasks are each examinations - equivalent to 1.5 hours

Rationale: A timed examination is deemed an appropriate assessment method for the purpose of assessing the depth and breadth of student knowledge relating to radiographic technique, imaging equipment and radiographic anatomy. The exams will draw on a range of question styles including short answer and problem solving questions.

### Formative Assessment

Formative assessment will include a variety of tasks designed to encompass all learning styles, such as quizzes, identification of anatomical models, diagram drawing and labelling and completion of mock exam questions.

### Assessment tasks:

#### Examination (First Sit)

Description: Examination - equivalent to 1.5 hours

Weighting: 50 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO2, MO4

#### Examination (First Sit)

Description: Examination - equivalent to 1.5 hours

Weighting: 50 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO3, MO4

**Examination (Resit)**

Description: Examination - equivalent to 1.5 hours

Weighting: 50 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO2, MO4

**Examination (Resit)**

Description: Examination - equivalent to 1.5 hours

Weighting: 50 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO3, MO4

**Part 5: Contributes towards**

This module contributes towards the following programmes of study:

Diagnostic Radiography {Apprenticeship-UWE} [Glenside] BSc (Hons) 2023-24