



Module Specification

Fundamentals of Diagnostic Imaging and Applied Anatomy

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Part 1: Information

Module title: Fundamentals of Diagnostic Imaging and Applied Anatomy

Module code: UZYYDN-15-1

Level: Level 4

For implementation from: 2021-22

UWE credit rating: 15

ECTS credit rating: 7.5

Faculty: Faculty of Health & Applied Sciences

Department: HAS Dept of Allied Health Professions

Partner institutions: None

Delivery locations: Glenside Campus

Field: Allied Health Professions

Module type: Standard

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 enable students to apply a clinical context to the theoretical baseline knowledge. The module will cover the application of equipment fundamentals to the production of clinical images using the broad range of techniques and procedures used within diagnostic radiography.

Features: Not applicable

Educational aims: By introducing key concepts related to radiographic anatomy (including cross sectional anatomy) and utilising images within teaching sessions which demonstrate core anatomy and related pathologies, students will be encouraged to apply their knowledge directly to radiographic practice. The areas included would specifically relate to the assessment of image quality of the axial and appendicular skeleton and common skeletal trauma and pathology/normal variants.

This module links with the anatomy and physiology module as an adjunct to visualising the anatomical systems and pathologies imaged using a range of equipment.

Outline syllabus: Full range of plain radiographic examinations including trauma for the range of areas:-

appendicular and axial skeleton

chest, abdomen and soft tissue structures.

The application of imaging modalities:- Magnetic Resonance Imaging (MRI) / Computed Tomography (CT) /Ultrasound for non-complex patient examinations of the skeleton and other anatomical systems (e.g. respiratory, renal)

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 there are 4 hours of lectures per week

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

MO1 Describe the common applications of a range of imaging methods and technologies

MO2 Recognise anatomical structures and pathologies demonstrated by a range of imaging methods

MO3 Demonstrate an understanding of the advantages and limitations of ionising and non-ionising imaging methods that can be used in clinical practice

MO4 Demonstrate an understanding of the impact that radiographic technique can have on diagnostic quality in the clinical context

Hours to be allocated: 150

Contact hours:

Independent study/self-guided study = 114 hours

Face-to-face learning = 36 hours

Total = 150

Reading list: The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://rl.talis.com/3/uwe/lists/50244B8D-CA29-EE8D-DFA3-B1B92E6A169B.html) via the following link <https://rl.talis.com/3/uwe/lists/50244B8D-CA29-EE8D-DFA3-B1B92E6A169B.html>

Part 4: Assessment

Assessment strategy: Component A: 2 hour e-OSCE (Objective Structured Clinical Examination)

This exam will require students to review and label images on-screen, and provide commentary on these, under exam conditions.

Rationale: To enable students to demonstrate the core knowledge required in order to meet the learning outcomes of the module. This knowledge base will be comprehensively assessed to ensure students have the required level of knowledge in order to practice effectively. The e-OSCE process is deemed to be most appropriate in order to demonstrate a breadth of student knowledge when viewing

digital clinical images.

Formative assessment will include a variety of tasks designed to encompass all learning styles, such as quizzes, diagram drawing and labelling and completion of mock e-OSCE assessment.

Assessment components:

Practical Skills Assessment - Component A (First Sit)

Description: 2 hour e-OSCE

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4

Practical Skills Assessment - Component A (Resit)

Description: 2 hour e-OSCE

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Diagnostic Imaging Practice {Apprenticeship-UWE} [Nov][FT][Glenside][3yrs] BSc (Hons) 2021-22