Module Specification

Intermediate Diagnostic Imaging Theory

Version: 2023-24, v2.0, 25 Jul 2023

Contents

Part 1: Information

Module title: Intermediate Diagnostic Imaging Theory

Module code: UZYS1P-30-2

Level: Level 5

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: Intermediate Diagnostic Imaging Studies 2023-24

Co-requisites: None

Continuing professional development: No

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: Not applicable

Features: Not applicable

Educational aims: See learning outcomes.

Outline syllabus: Anatomy, disease and clinical applications

Imaging modalities and equipment used in the demonstration of anatomy,

Physiology and common pathologies within the context of patient care pathways.

Specialist Imaging areas

Emergency department
Mammography
Interventional procedures
Operating theatre and mobile radiography

Patient types

Multicultural and diversity management of people attending diagnostic imaging.

Pharmacology

Contrast media and drug reactions Pharmaco-dynamics and Pharmaco-kinetics

Radiobiology

Effects of radiation on cells
Risk versus benefit of imaging modalities

Health and safety issues

Radiation protection
Legal and ethical frameworks

Part 3: Teaching and learning methods

Teaching and learning methods: Scheduled learning lectures, seminars, tutorials, practical classes.

Independent learning includes 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. Scheduled sessions may vary slightly depending on the module choices you make.

There will be 72 contact hours of scheduled learning to include lectures, seminars and practical sessions

Students will also be expected to engage with independent learning, including subject specific vodcasts with associated self-directed leaning tasks, directed reading, reflective writing and engagement with online activities.

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

MO1 Demonstrate an analytical understanding and application of the theoretical principles underpinning diagnostic imaging of the human body systems

MO2 Critically evaluate and compare the utilisation of different radiographic techniques

MO3 Critically appraise the relevant pharmacology of contrast agents and drugs commonly used in diagnostic Imaging

MO4 Demonstrate understanding of the health & safety requirements for diagnostic imaging practice

MO5 Discuss the role of Diagnostic Imaging in the management and delivery of patient care

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 via the following link https://uwe.rl.talis.com/modules/uzys1p-30-2.html

Part 4: Assessment

Assessment strategy: The online exam (24 hour access window with suggested completion time) will allow the student to be assessed on and demonstrate a depth and breadth of knowledge and understanding of pharmacology, radiobiology and health and safety procedures associated with diagnostic imaging.

A written case study will enable the demonstration of an awareness of the role of diagnostic Imaging in the management and delivery of patient care together with a critical comparison of the utilisation of different radiographic techniques.

Assessment tasks:

Written Assignment (First Sit)
Description: Written assignment (2500 words)
Weighting: 60 %
Final assessment: No
Group work: No
Learning outcomes tested: MO1, MO2, MO5

Examination (Online) (First Sit)
Description: Online Examination (24 hours)
Weighting: 40 %
Final assessment: Yes
Group work: No
Learning outcomes tested: MO3, MO4

Written Assignment (Resit)
Description: Written assignment (2500 words)
Weighting: 60 %
Final assessment: No
Group work: No
Learning outcomes tested: MO1, MO2, MO5

Examination (Online) (Resit)

Description: Online Examination (24 hours)

Weighting: 40 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO3, MO4

Part 5: Contributes towards

This module contributes towards the following programmes of study: