Module Specification

Intermediate Imaging Theory

Version: 2024-25, v3.0, 18 Jul 2024

Contents

Part 1: Information

Module title: Intermediate Imaging Theory

Module code: UZYYDS-30-2

Level: Level 5

For implementation from: 2024-25

UWE credit rating: 30

ECTS credit rating: 15

College: College of Health, Science & Society

School: CHSS 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 covers the application of diagnostic radiography equipment to produce images of a wide range of anatomical systems for a range of complex diagnostic examinations.

Features: Not applicable

Educational aims: To develop an understanding of underpinning theory of imaging modalities with a range of contrast media. This is important for the preparation of

their use in practice and to enable understanding of the safety procedures and patient care required.

Outline syllabus: Typically, this module will cover:

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 including Bariatric, elderly, paediatric and those with additional learning needs.

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 includes lectures, seminars, tutorials, practical classes and simulation typically in Computed Tomography and X-ray.

Independent learning includes hours engaged with essential reading, and practical session preparation.

Students will also be required to engage with subject specific vodcasts with associated self-directed leaning tasks, directed reading, 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 modalities including both unenhanced and contrast enhanced examinations

MO3 Demonstrate understanding of the health & safety requirements for diagnostic imaging practice, including relevant pharmacology of contrast agents and drugs use

MO4 Demonstrate understanding of the role of diagnostic radiography in the management and delivery of patient care, within relevant imaging policies and procedures which impact on patient pathways related to a range of clinical conditions.

Hours to be allocated: 300

Contact hours:

Independent study/self-guided study = 228 hours

Face-to-face learning = 72 hours

Total = 0

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/uzyyds-30-2.html

Part 4: Assessment

Assessment strategy: Assessment Task: maximum 3000 word written assignment on a patient pathway

Rationale: A written assignment based on a patient pathway will enable the demonstration of an awareness of the role of diagnostic radiography in the management and delivery of patient care, together with a critical comparison of the utilisation of different radiographic modalities in addition to relevant health and safety and pharmacological considerations.

Formative Assessment

There will be simulated scenarios to allow exploration of pathways, modalities and related considerations. Feedback will be available on draft assignments.

Assessment tasks:

Written Assignment (First Sit)

Description: 3000 word written assignment on a patient pathway
Weighting: 100 %
Final assessment: Yes
Group work: No
Learning outcomes tested: MO1, MO2, MO3, MO4

Written Assignment (Resit)
Description: 3000 word written assignment on a patient pathway
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 Radiography {Apprenticeship-UWE} [Glenside] BSc (Hons) 2023-24