

MODULE DESCRIPTOR

Module Title

Diagnostic Imaging Systems

Reference	HS2117	Version	7
Created	April 2023	SCQF Level	SCQF 8
Approved	November 2012	SCQF Points	30
Amended	June 2023	ECTS Points	15

Aims of Module

To enable the student to gain knowledge and understanding of imaging, technology, patient care and support of patients undergoing imaging of the major body systems.

Learning Outcomes for Module

On completion of this module, students are expected to be able to:

- 1 Explain the plain and cross sectional radiographic examinations and associated technologies used in the diagnostic imaging of the major body systems.
- 2 Explain the radiographic examinations and associated technologies used in ward and theatre imaging and other settings outwith the radiography department.
- 3 Describe the care and communication needs of patients before, during and after radiographic investigations of the major body systems.
- 4 Assess plain and cross sectional radiographic images of the major body systems.
- 5 Explain the use of contrast in diagnostic imaging examinations.

Indicative Module Content

Physical principles of fluoroscopy, mammography, dental, computed tomography, magnetic resonance imaging, radionuclide imaging, ultrasound Equipment and technology used in - mobile, fluoroscopy, mammography, dental, computed tomography, magnetic resonance imaging, radionuclide imaging and ultrasound examinations Radiation protection, quality assurance and safety procedures Radiographic techniques for imaging of major body systems. Patient care, communication and support; informed consent Imaging outwith the diagnostic imaging department - mobiles, ward, theatre, mobile screening (vans) Contrast studies, contrast agents, their functions, methods of administration and care requirements

Module Delivery

Blended delivery comprising on campus and online learning and engagement. This will include Workshops, Tutorials, Keynote Lectures, Digital Learning Resources and Simulation

Indicative Student Workload	Full Time	Part Time
Contact Hours	75	N/A
Non-Contact Hours	225	N/A
Placement/Work-Based Learning Experience [Notional] Hours	N/A	N/A
TOTAL	300	N/A
<i>Actual Placement hours for professional, statutory or regulatory body</i>		

ASSESSMENT PLAN

If a major/minor model is used and box is ticked, % weightings below are indicative only.

Component 1

Type: Practical Exam Weighting: 100% Outcomes Assessed: 1, 2, 3, 4, 5

Description: Computer based objective structured clinical examination (OSCE)

Component 2

Type: Coursework Weighting: 0% Outcomes Assessed: 4, 5

Description: This relates to a minimum of 80% mandatory attendance of all scheduled module delivery. Attendance will be assessed on a pass/unsuccessful basis.

MODULE PERFORMANCE DESCRIPTOR

Explanatory Text

C1: Major component (graded) C2: Minor component (pass/fail (unsuccessful) To achieve a pass, a grade D or above is required in C1 and a pass in C2.

Module Grade Minimum Requirements to achieve Module Grade:

A	A and pass
B	B and pass
C	C and pass
D	D and pass
E	E/fail or pass, A/fail, B/fail, C/fail or D/fail.
F	Fails to achieve the minimum requirements for an E and/or fails to meet the module attendance requirements.
NS	Non-submission of work by published deadline or non-attendance for examination

Module Requirements

Prerequisites for Module Successful completion of all Stage One modules of Master of Diagnostic Radiography will normally be required.

Corequisites for module None.

Precluded Modules None.

INDICATIVE BIBLIOGRAPHY

- 1 CARVER, E. & CARVER, B., 2021. *Medical imaging*. 3rd ed. London: Churchill Livingstone Elsevier.
- 2 GRAHAM, D.T., CLOKE, P. & VOSPER, M., 2019. *Principles and applications of radiological physics*. 7th ed. Edinburgh: Churchill Livingstone.
- 3 JACKSON, S. & THOMAS, R. 2004. *Cross-sectional imaging made easy*. Edinburgh: Churchill Livingstone.
- 4 Journal articles and professional publications.