

This Version is No Longer Current
 The latest version of this module is available [here](#)

MODULE DESCRIPTOR

Module Title

Diagnostic Imaging Systems

Reference	HS2117	Version	3
Created	July 2017	SCQF Level	SCQF 8
Approved	November 2012	SCQF Points	30
Amended	August 2017	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 undergoing 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 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

Keynote lectures, tutorials, practical workshops.

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
Actual Placement hours for professional, statutory or regulatory body		

ASSESSMENT PLAN

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

Component 1

Type:	Practical Exam	Weighting:	70%	Outcomes Assessed:	1, 2, 4, 5
Description:	Computer based objective structured clinical examination (OSCE)				

Component 2

Type:	Coursework	Weighting:	30%	Outcomes Assessed:	3
Description:	Patient information leaflet or podcast				

MODULE PERFORMANCE DESCRIPTOR

Explanatory Text

C1: equally weighted questions; marked in accordance with agreed outline answers C2: performance assessed with a grading proforma Overall grade determined as follows:

Module Grade	Minimum Requirements to achieve Module Grade:
A	Grade configuration C1/C2 - AA , AB
B	Grade configuration C1/C2 - AC, AD BA, BB, BC, CA
C	Grade configuration C1/C2 - BD, CB, CC, CD, DA, DB
D	Grade configuration C1/C2 - AE, BE, CE, DC, DD, DE, EA,
E	Grade configuration C1/C2 - AF, BF, CF, DF,EB, EC, ED, EE, EF, FA, FB, FC
F	Grade configuration C1/C2 - FD, FE, FF.
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 BSc (Hons) 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.