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MODULE DESCRIPTOR

Module Title

Foundations of Radiographic Practice

Reference	HS1197	Version	5
Created	June 2021	SCQF Level	SCQF 7
Approved	November 2012	SCQF Points	30
Amended	September 2021	ECTS Points	15

Aims of Module

To enable the student to gain knowledge and understanding of the technological, radiographic, professional and care requirements for skeletal, chest and abdominal plain imaging.

Learning Outcomes for Module

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

1	Describe the radiographic science and technology that underpins the production of plain radiographic images.
2	Explain the principles of radiation protection, radiation safety and health and safety in radiography, utilising library searching mechanisms to acquire relevant evidence.
3	Describe the care and communication needs of patients before, during and after radiographic investigations.
4	Demonstrate surface markings and plain radiographic imaging of the appendicular and axial skeleton, chest and abdomen.
5	Demonstrate the basic principles of radiographic image critique.

Indicative Module Content

Radiographic procedures to carry out plain film imaging of the skeleton, abdomen and thorax - informed consent, patient positioning, application of surface markings in relation to internal anatomy, imaging technique, use of equipment, referral and justification processes. Systems and practices in radiography. Image critique. Patient care and communication. Basic physics principles. Radiological science - ionising radiations, x-ray production, image production and image quality, exposure factors. Radiological technologies - the x-ray tube, accessory equipment, CR, DR, PACs and RIS systems. Radiation protection and radiation safety Radiation legislation. Health and safety in radiography Utilisation of library searching mechanisms to acquire evidence relevant to practice.

Module Delivery

Blended delivery comprising on campus and online learning and engagement. This will include; Workshops, Tutorial, Digital Learning Resources.

Module Ref:	HS1197 v5

Indicative Student Workload	Full Time	Part Time
Contact Hours	70	N/A
Non-Contact Hours	230	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, 3, 4, 5
Description:	Multi-station objective structured practical examination (OSPE)				

Component 2

Type:	Coursework	Weighting:	30%	Outcomes Assessed:	2
Description:	Regulatory and safety based coursework				

Component 3

Type:	Coursework	Weighting:	0%	Outcomes Assessed:	3
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) C3: Minor component (pass/fail) To achieve a pass, a grade D or above is required in both C1 and C2 + a pass in C3.

Module Grade	Minimum Requirements to achieve Module Grade:
A	Grade configuration C1/C2 - A and pass. C3 pass.
B	Grade configuration C1/C2 - B and pass. C3 pass.
C	Grade configuration C1/C2 - C and pass. C3 pass.
D	Grade configuration C1/C2 - D and pass C3 pass.
E	Grade configuration C1/C2 - E and pass, A and fail, B and fail, C and fail, D and fail. C3 pass or 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	None, in addition to course entry requirements or equivalent.
Corequisites for module	None.
Precluded Modules	None.

INDICATIVE BIBLIOGRAPHY

1. BALL, J.L., MOORE, A.D. & TURNER,S., 2008. *Ball and Moore's essential physics for radiographers.* 4th ed. Oxford: Wiley-Blackwell.
2. CARVER,E. & CARVER, B. 2021. *Medical imaging.* 3rd ed. London: Churchill Livingstone Elsevier.
3. EASTON, S. 2008. *An introduction to radiography.* London: Churchill Livingstone.
4. HOLMES, E.J. & MISRA, R.R., 2004. *A-Z of Emergency Radiology.* Cambridge: Cambridge University Press.
5. SHERER, M.A.S. et al., 2021. *Radiation protection in medical radiography.* 9th ed. St. Louis: Mosby.
6. Current legislation and guidance documents.
7. Journals and professional publications.