

Module Details	
Module Title	Safe and Professional Radiographic Practice
Module Code	RAD4008-C
Academic Year	2022/3
Credits	30
School	School of Allied Health Professions and Midwifery
FHEQ Level	FHEQ Level 4

Contact Hours	
Type	Hours
Lectures	30
Interactive Learning Objects	18
Practical Classes or Workshops	18
Seminars	6
Independent Study	175.5
Clinical Placement	52.5

Availability	
Occurrence	Location / Period
BDA	University of Bradford / Academic Year

Module Aims
To introduce the student to study at university, the BSc (Hons) Diagnostic Radiography programme and study skills for undergraduate learning and assessment. The module will also introduce you to concepts of professionalism, ethics and safety, considering the needs of the service user at all times in addition to the foundations of physical science that underpins the safe use of ionising radiation in practice.

Outline Syllabus

Induction to: the programme, Faculty and University. Regulations and procedures.

Support within the University and placement.

Collaborative learning and working with others.

Developing study skills: learning and assessment at University and placement, including academic writing, referencing and the use of the Harvard System.

Finding evidence, evaluating and using research.

IT skills: including use of VLE and professional development portfolio.

Professional identity and the role of the diagnostic radiographer.

The Health Professions Council and the Society and College of Radiographers.

Competence and continuing professional development.

Theories of interprofessional team working. High quality patient care for a diverse population.

Person centred care. Patient/service user involvement in care.

Patient perspectives and working with health issues such as dementia. Tier 1 Dementia awareness training.

NHS Constitution, values and behaviours.

Ethics, candor, communication, overcoming barriers.

Safe guarding of vulnerable people.

Human factors and error theory.

Public health, the radiographers role.

Atomic structure; radioactivity; radiation sources and hazards; fundamentals of radiation protection; radiation dosimetry; principles of health & safety.

Application of mathematical skills.

X-ray interactions; selecting exposure factors and the concept of image optimisation; introduction to image detectors; control of scatter, including grids. Appropriate use of automatic exposure devices.

Learning Outcomes	
Outcome Number	Description
01	1.1 Identify the skills, values and behaviours of a professional practitioner as defined by the Health and Care Professions Council in the Standards of Proficiency for Radiographers. 1.2 Understand your own responsibilities for safe inter-professional practice with awareness of human factors. . 1.3 Demonstrate awareness of relevant regulations. 1.4 Understand the importance of Education for Sustainable Development (ESD) and what it means to you as a student. .
02	2.1 Provide and understand the need for high quality appropriate patient care, to ensure equality of service provision for a diverse population including those with dementia. 2.2 Apply the Health and Care Professions Council Guidance for Students on Conduct and Ethics for Students` to clinical practice and university. 2.3 Recognise the sources and hazards of ionising radiation. 2.4 Explain how X-rays interact with matter; identify different methods of image acquisition and how scattered radiation can be controlled. 2.5 Understand the importance of radiation protection and employ appropriate processes both in clinical practice and at university.
03	3.1 Demonstrate awareness of the principles of effective Communicate with patients and carers and healthcare professionals. 3.2 Use mathematical principles in support of science and technology learning throughout the course. 3.3 Use developing skills in academic writing, reflection and use the Harvard Referencing System effectively. 3.4 Present, evaluate and interpret qualitative data, develop lines of argument and make sound judgements.

Learning, Teaching and Assessment Strategy
The module will take a blended learning approach with a mix of online lectures and seminars, e-learning packages, practical training on campus for Mandatory Pre-Practice Placement Training, and clinical placement. Online Lectures will for prepare students for life and study at university, including approaches to problem solving. Students will learn principles which will prepare them for their first clinical placement, including mandatory subjects required for practice and high quality patient care. This will enable them to practice safely by protecting themselves and patients whilst in the clinical environment from ionising radiation and other health hazards. Online Seminars and Tutorials students will work with their tutor and peers to gain feedback enabling development of their individual study skills and prepare for future assessments. Practical: Mandatory health and safety training and simulated clinical learning will utilise clinical skills facilities. Independent and Directed study: directed reading and learning. elearning packages NHS Tier 1 dementia training. practice placement. Students will be required to undertake training and complete tasks to demonstrate the practical and safe application of ionising radiation and employment of radiation protection. Assessment is in three parts: an assignment to demonstrate understanding of professional issues and evidence of developing academic investigation and writing skills including effective use of the Harvard Referencing System (learning outcomes 1.1, 1.2, , 2.1, 2.2, 2.4, 3.1, 3.2,); an exam assessing the ionising radiation and protection elements of the module (learning outcomes 1.3, 2.3, 2.4,) submitted firstly as a formative submission in semester 1 and in semester 2 as a summative submission. Course based discussion of the science and practice of Radiography and an MCQ Examination on Ionising radiation and protection

Mode of Assessment			
Type	Method	Description	Weighting
Summative	Coursework - Written	2000 word evidence based discussion of the science and practice of Radiography	60%
Summative	Examination - MCQ	MCQ Examination on Ionising radiation and protection	40%

Reading List
To access the reading list for this module, please visit https://bradford.rl.talis.com/index.html

Please note:

This module descriptor has been published in advance of the academic year to which it applies. Every effort has been made to ensure that the information is accurate at the time of publication, but minor changes may occur given the interval between publishing and commencement of teaching. Upon commencement of the module, students will receive a handbook with further detail about the module and any changes will be discussed and/or communicated at this point.

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