Module Specification

Module Summary Information

1	**Module Title**	Introduction to Diagnostic Imaging Practice
2	**Module Credits**	60
3	**Module Level**	4
4	**Module Code**	RAD4044

5	**Module Overview**

Rationale:

This Core module aims to provide a grounding in diagnostic imaging with a holistic approach to the patient. The module provides the necessary theory and practical experience to enable students to competently perform clinical radiographic imaging examinations. The syllabus includes normal anatomy; patient care and communication; standard radiographic examination procedures to include basic fluoroscopic techniques.

This module supports the student in achieving the commensurate skills and knowledge necessary to competently complete a radiographic examination to the ability expected of a level 4 student.

This Module will provide you with the opportunity to:

- Develop an understanding of anatomy and physiology of the human body.
- Apply a basic understanding of the anatomy and physiology of the human body in a clinical setting.
- Introduce the professional skills required to obtain informed consent from the patient and apply appropriate justification including consideration of the 28/10 day rule and use of contrast media.
- Gain competence within your role as a student radiographer.
- Develop a knowledge of the effects imaging has on the human body in relation to contrast examinations (to include awareness of the service user perspective)
- To ensure competent and safe use of radiographic equipment in standard techniques.
- To develop an awareness of the uses and limitations of standard radiographic examinations.
- To receive formative feedback on your clinical competence from clinical staff.

Alignment with Programme Philosophy and Aims:

The programme aims to develop your collaborative skills. Therefore, whilst studying this module, you can expect to work with and learn from staff from other healthcare disciplines.

The programme also aims for you to become a self-directed learner who is capable of competent and autonomous practice. The introduction to diagnostic imaging practice module will provide you with some of the skills necessary to begin this, as you will be required to manage your own online learning tasks and apply what you learn to your own professional development.

The programme also aims to prepare you for a career in diagnostic radiography, where you should be continually seeking to improve the service user experience and your own expertise. To enable this development therefore, you will be supported in developing the skills required by a reflective

practitioner and documenting these within an e-portfolio. This is your Personal Development Portfolio (PDP)

Skills acquired while studying this module can be applied to other areas of the programme but they will be particularly useful as you progress into level 5, in particular relating to pathology focussed, multi-modality imaging practice.

Learning and Teaching Strategy:

This module will use several approaches to learning.

Keynote lectures will introduce principles of radiographic technique, image viewing and region specific anatomy and physiology.

However the emphasis will be on your use of online resources provided via Moodle to prepare for workshops, lectures, seminars and small group tutorials.

Workshops will cover positioning and image viewing with anatomy recognition and example exam questions will be used during these sessions.

Seminar groups will consider topics that could be used as a starting point for discussions on professional approach to radiographic procedures.

Tutorials will be provided to discuss topics in more detail with small groups or individuals.

Assessment Strategy:

You will be required to complete a number of clinical radiographic competencies during hospital placements. You will also be required to submit an aligned coursework assignment in order to demonstrate your clinical and professional approach to safe patient practice. This will help form part of your Personal Development Portfolio.

You will also be required to complete a 2 hour invigilated examination to demonstrate your ability to describe standard practice and normal anatomy and physiology as demonstrated in radiographic examinations.

6	Indicative Content

To learn appropriate anatomy, physiology and pathology of the human utilising a body systems approach, with an emphasis on osteology, respiratory, cardiovascular, gastro intestinal, urinary, reproductive, endocrine/hormones, lymphatic, liver/biliary tree and pancreas.
An develop an understanding of the related radiographic appearances of these body systems.
To learn and adopt the use of medical terminology required to understand x-ray referral information and apply appropriate principles of justification.
To develop an understanding of, and ability to perform standard radiographic examinations on cooperative patients, using equipment safely and effectively. To project a professional approach, extend appropriate levels of care to patients and ensure their safety whilst undergoing radiographic examinations.
To be able to evaluate and critique radiographic images.
To apply all this knowledge to practice within the clinical setting

7	Module Learning Outcomes On successful completion of the module, students will be able to:	
	1	Demonstrate the professional ability to use referral information to enable safe and effective delivery of standard radiographic clinical care to service users. (Not including the head).
	2	Describe appropriate, safe, standard radiographic techniques (Not including the head) in response to patient referral information.
	3	Describe the appearances and relevance of normal anatomy and physiology (Not including the head) in relation to standard radiographic procedures.
	4	Describe the criteria for unacceptable standard radiographic examinations (Not including the head) and provide the appropriate steps to amend or augment those examinations.

8	Module Assessment			
Learning Outcome				
	Coursework	**Exam**	**In-Person**
1			**X** (clinical)
2	**X**		
3,4		**X**	

9	Breakdown Learning and Teaching Activities	
Learning Activities		**Hours**
Scheduled Learning (SL) includes lectures, practical classes and workshops, peer group learning, Graduate+, as specified in timetable		120 = Lectures + seminars + workshops
Directed Learning (DL) includes placements, work-based learning, external visits, on-line activity, Graduate+, peer learning, as directed on VLE		120 = Pre-session prep + post session tasks as directed on VLE.
Private Study (PS) includes preparation for exams		360 Includes preparation, revision & learning required to support placement
Total Study Hours:		600 hours