

Module Details	
Module Title	Radiography of the Appendicular Skeleton
Module Code	RAD4006-C
Academic Year	2020/1
Credits	30
School	School of Allied Health Professions and Midwifery
Subject Area	Radiography
FHEQ Level	FHEQ Level 4
Pre-requisites	N/A
Co-requisites	N/A

Contact Hours	
Type	Hours
Online Lecture (Synchronous)	12
Online Lecture (Asynchronous)	3
Practical Classes or Workshops	8
Learning Objects Interaction	12
Clinical Placement	100
Online Seminar (Synchronous)	3
Directed Study	24
Independent Study	98

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

Module Aims
Anatomy, physiology and radiographic techniques of the upper and lower limbs and introduction to physical concepts of x-rays.

Outline Syllabus

Macroscopic, microscopic and radiographic anatomy, physiology and pathology of the appendicular skeleton. Radiographic, anatomical and medical terminology related to the appendicular skeleton.

Radiographic technique and radiation protection for a comprehensive range of routine radiographic examinations. Patient care, informed consent and equality of service provision for a diverse population. Working as part of a health care team. Image evaluation. I

Introduction to SI units relevant to radiographic studies; exposure factors; the concept of energy; electromagnetic radiation and the electromagnetic spectrum; electricity and magnetism; fundamentals of X-ray production.

Learning Outcomes

Outcome Number	Description
01	1.1 Describe normal anatomy, physiology and and be able to differentiate common pathologies of the appendicular skeleton 1.2 Describe using appropriate terminology the radiographic technique and patient care for routine examinations of the appendicular skeleton, to include informed consent.. 1.3 Use SI units appropriately, understand and explain the nature of electromagnetic radiation and how X-rays are produced including exposure factors.
02	2.1 Recognise common clinical indications for radiographic examinations of the appendicular skeleton 2.2 Gain informed consent for and perform appropriate routine radiographic examinations of the appendicular skeleton and demonstrate effective communication skills. 2.3 Evaluate radiographic images of the appendicular skeleton using appropriate terminology.
03	3.1 Demonstrate effective communication skills. 3.2 Reflect on clinical experiences to benefit future development. 3.3 and apply the principles of the implications of pre practice placement training MPPT

Learning, Teaching and Assessment Strategy

Students will achieve the module learning outcomes by following an integrated approach to learning which is undertaken through both academic study and placement learning.

A blended approach will facilitate learning and practical skills through online lectures and seminars, and practical workshops in clinical like environments on campus.

Key online lectures which will introduce students to research informed radiographic principles, biological science and radiographic techniques including high quality patient care. These lectures and compulsory tutorials will develop the knowledge outcomes,

Practical teaching in the X-ray clinical skills room will develop the subject specific skills and understanding . The topics studied will allow the student to actively participate in X-ray examinations whilst they are at placement. Students will study how x-rays are produced in appropriate depth to enable them to safely and appropriately use x-ray equipment to undertake these examinations.

Assessment of the achievement of learning outcomes 1.1, 1.2, 1.3, , 2.1 and 2.3 will be undertaken by two computer based examinations.

An objective structured clinical examination (OSCE) is delivered by PC. This exam allows an assessment of the full range of knowledge based on medical images and procedures that students will encounter in practice. The second is a MCQ style assessment of the physical sciences.

Students` clinical learning is directed by their Professional Development Portfolio. Clinical learning objectives form part of the portfolio and ensure the students learning is appropriate to the module being studied and enables them to gain formative feedback before assessment of the required learning outcomes 1.1, 1.2, 2.2, , 3.1 3.2 and 3.3 Three modes of assessment: computer based OSCE; computer delivered MCQ exam; clinical portfolio.

Mode of Assessment				
Type	Method	Description	Length	Weighting
Summative	Computer-based assessment	Objective structured clinical examination (OSCE)	1 hour	40%
Summative	Clinical Assessment	Semester 1 paper based clinical portfolio	N/A	30%
Summative	Computerised examination	MCQ style examination	1 hour	30%

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.