

MSC MEDICAL IMAGING AND RADIATION SCIENCES

Overview

There are eight pathways to choose from which will be phased in over the first four years of the Programme.

- Pathway 1 – Computed Tomography (CT)
- Pathway 2 – Magnetic Resonance Imaging (MRI)
- Pathway 3 – Ultrasound (Obstetrics and Gynaecology)
- Pathway 4 – Image Interpretation
- Pathway 5 – Advanced Practice
- Pathway 6 – Radiation Therapy
- Pathway 7 – Management and Leadership
- Pathway 8 – Radiation Protection
- Pathway 9 – Mammography

Exit Awards

Postgraduate Certificate in Medical Imaging and Radiation Sciences

Upon successful completion of modules to the value of 30 credits, students may opt not to proceed with the programme and exit with a Postgraduate Certificate in Medical Imaging and Radiation Sciences (<https://ucc-ie-public.courseleaf.com/programmes/pcmirs/>) (NFQ Level 9, Minor Award).

Postgraduate Diploma in Medical Imaging and Radiation Sciences

Upon successful completion of modules to the value of 60 credits, students may opt not to proceed with the programme and exit with a Postgraduate Diploma in Medical Imaging and Radiation Sciences (<https://ucc-ie-public.courseleaf.com/programmes/pdmirs/>) (NFQ Level 9, Major Award).

Programme Requirements

For information about modules, module choice, options and credit weightings, please go to Programme Requirements (p.).

Programme Requirements

Code	Title	Credits
Year 1		
RA6019	Clinical Practice (A)	10
<i>Pathways</i>		20
Computed Tomography		
AN6061	Comparative Anatomy & Pathophysiology (A)	
RA6014	Principles and Practice of CT (A)	
Magnetic Resonance Imaging		
AN6061	Comparative Anatomy & Pathophysiology (A)	
RA6015	Principles and Practice of MRI (A)	
Year 2		
Students take 30 credits as follows - all listed core modules (20 credits) and 10 credits in their chosen pathway:		
<i>Core Modules</i>		
NU6310	Implementation of Evidence-Based Practice for Quality Improvement in Healthcare	10
RA6028	Clinical Practice (B)	10
<i>Pathways</i>		10
Computed Tomography		

RA6024	Principles and Practice of CT (B)	
Magnetic Resonance Imaging		
RA6025	Principles and Practice of MRI (B)	
Year 3		
Students take 30 credits as follows:		
<i>Core Modules</i>		
NU6304	Advanced Research Methods Applied to Healthcare	10
RA6012	Research Dissertation	20
Total Credits		90

Examinations

Full details and regulations governing Examinations for each programme will be contained in the *Marks and Standards Book* and for each module in the *Book of Modules*.

Programme Learning Outcomes

Programme Learning Outcomes for MSc (Medical Imaging and Radiation Sciences) (NFQ Level 9, Major Award)

On successful completion of this programme, students should be able to:

- Demonstrate the professional attributes, leadership and clinical skills required to undertake competent advanced clinical imaging/treatment practices in various clinical settings relevant to the student.
- Demonstrate an ongoing commitment to the professional and caring values which underpin a safe and high-quality clinical service.
- Critically evaluate the audit findings and clinical and academic evidence to enhance the organisation and management of patient care in various diagnostic imaging and radiation therapy contexts.
- Demonstrate the ability to evaluate and respond professionally to complex and changing clinical situations.
- Apply in-depth knowledge and critical understanding of key clinical and professional issues in diagnostic radiography/radiation therapy and apply clinical leadership and independent professional practice commensurate with a clinical specialist radiographer.
- Critically evaluate original research sources and their contribution to the evidence base of clinical practice.
- Synthesise an understanding of the ethical and confidentiality rules governing the professional practice of diagnostic radiography/radiation therapy to comply with all relevant professional statutory and regulatory body standards and processes that maintain these standards.
- Critically evaluate ongoing personal and professional development via the theory and practice of CPD.
- To evidence a self-reflective approach to professional practice decision-making and be responsive to the needs of service users.
- Apply a holistic approach to developing professional competencies within the multi-professional environment to become a safe reflective, advancing practitioner.