



Graduate Diploma Magnetic Resonance Imaging (MRI)

COURSE FEATURES

Accredited by the Irish Institute of Radiography and Radiation Therapy (IIRRT).

Addresses theory and clinical practice issues in Magnetic Resonance Imaging.

Confers clinical competence in MR scanning on successful graduates

Accommodates working professionals through flexible programme delivery.

WHO SHOULD TAKE THIS COURSE?

Technological advances in Magnetic Resonance Imaging (MRI) have led to a greater range of clinical applications, such that MRI is now a core imaging modality in contemporary healthcare. This course encompasses current technological developments in MRI, providing a platform for discussion of physical principles, scanning techniques and clinical practice issues.

This course aims to foster the personal and professional development of the postgraduate radiographer by encouraging students to build on appropriate undergraduate study and existing clinical skills in MRI further their knowledge and practical expertise in this area.

COURSE DETAILS

Major code	X022
Duration	12 months
Schedule	Full-Time
Next intake	September annually

"The MSc MRI programme at UCD met my expectations, providing an interesting and challenging academic programme, supported by concurrent clinical placement in an MRI department."

- *Zaina Al Maskari, Student*

COURSE DESCRIPTION

PRINCIPLES AND APPLICATIONS

Technological advances in MRI have led to a greater range of clinical applications, and MRI now plays a critical role in contemporary diagnostic healthcare. This course, validated by the Irish Institute of Radiography & Radiation Therapy (IIRRT), integrates the physical principles of MRI with practical clinical applications.

The course critically examines standard MR technology and scanning techniques and practice issues. Through collaborative and self-directed learning opportunities, students will broaden their knowledge and develop their reflective, evaluative and communication skills to foster high-quality clinical MR service provision.

SKILLED GRADUATES

During the course students are provided with a solid foundation in the principles, theory and practice of MRI.

Understanding the physical principles underpinning MR image generation will enable graduates to appropriately select and manipulate MR equipment and pulse sequences within the clinical setting. Practice of MRI-based modules address the spectrum of routine applications of MRI in the central nervous, musculoskeletal and vascular systems, together with applications in the abdomen and pelvis. This provides the knowledge-base for students to evaluate MR scanning protocols and resultant image appearances for diverse clinical indications, and to justify clinical decisionmaking.

Upon graduation, students will have developed a critically questioning approach to MR imaging technology and practice and will be equipped to actively contribute to clinical decision-making, problem-solving within the clinical practice environment.

STEPWISE PROGRESSION

Stepwise progression enables students who have successfully completed five core modules to continue their studies towards an MSc in MRI by taking the 30-credit Advanced MR Imaging module over an additional semester.



Magnetic Resonance Imaging

COURSE MODULES

As part of this course, students will undertake a combination of modules that includes:

Technology of MRI

Practice of MRI

Clinical practice of MRI

ENTRY REQUIREMENTS

Radiographers holding a BSc or equivalent in Diagnostic Radiography; with at least one year post-qualification experience, and normally a minimum of four months clinical experience in MR scanning. Candidates must arrange their own clinical placement and provide evidence of an agreement to spend a minimum of 700 hours in a MRI department over the duration of the MSc programme

International applicants should contact the Academic Programme Director for information regarding specific additional eligibility criteria including English language requirements and clinical placement arrangements during the course.

FEES

Please check www.ucd.ie/fees

ABOUT UCD DIAGNOSTIC IMAGING

UCD is an internationally recognised centre of excellence for Diagnostic Imaging. The School of Medicine offers an extensive portfolio of graduate taught courses, which cater to a diverse range of healthcare professionals.

For more information visit www.ucd.ie/medicine



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More information on this course:
www.ucd.ie/medicine

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