



MSc 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.

Develops specialist clinical and critical thinking skills

Delivered by national and international experts.

Confers clinical competence in MRI scanning on successful graduates.

Accommodates working professionals through flexible programme delivery.

WHO SHOULD TAKE THIS COURSE?

The MSc MRI course is designed for radiographers who wish to provide high quality healthcare by deepening and broadening their knowledge and expertise in the field of Magnetic Resonance Imaging.

Applicants should normally have at least one year postqualification experience as a radiographer, and be working in an MRI department over the duration of the course.

COURSE DETAILS

Major code	X076
Duration	16 months
Schedule	Full-Time
Next intake	September annually

“The MSc MRI programme at UCD helped me to improve my technological knowledge of MRI and also to gain an understanding of the advanced features of MR imaging through its broad content, varied delivery style and approachable lecturers, who encouraged and actively considered student feedback.”

- Bridget Furlong, 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 and advanced 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 and advanced applications of MRI in the central nervous, musculoskeletal and cardiovascular 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 and the advancement of research within the clinical practice environment.

STEPWISE PROGRESSION

Stepwise progression enables students who have successfully completed five core modules to exit after 12 months with a Graduate Diploma in MRI.

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



CONTACT

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Conferring at O'Reilly Hall

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

Advanced MRI imaging

ENTRY REQUIREMENTS

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FEES

Please check www.ucd.ie/fees

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

Apply for this course:
www.ucd.ie/apply