

Discipline of Medical Imaging & Radiation Therapy

# Computed Tomography (CT)



## PgC/PgD/MSc (starting September 2024)

### Overview

From September 2024 **University College Cork (UCC)** are pleased to be delivering a postgraduate certificate (PgC), diploma (PgD) and master's (MSc) in Medical Imaging & Radiation Sciences (**Computed Tomography**). This Programme is designed to equip those working or who are considering working in CT with the necessary knowledge, skills and competencies for effective and safe clinical practice. Course delivery will be **entirely online, part-time** and is available within Ireland and Internationally.



Admission to the Programme focuses on clinical practitioners, qualified diagnostic radiographers and those working in radiation therapy, who have a specific role in and around CT scanning. To be eligible you will need have a relevant qualification, be state registered and have access to your own placement / mentorship in **Computed Tomography**. Applicants must also be proficient in **English** and the Programme has two intakes (**September & January**)

## Programme Structure

Qualification	Time Period (months)	Modules
Post-graduate Certificate in Medical Imaging & Radiation Sciences (MIRS) - Computed Tomography ( <b>PgC</b> )	12	<ul style="list-style-type: none"> <li>• <b>AN6061</b> Comparative Anatomy &amp; Physiology (A) (10 credits)</li> <li>• <b>RA6014</b> Principles &amp; Practice of CT (A) (10 credits)</li> <li>• <b>RA6019</b> Clinical Practice (A) (10 credits)</li> </ul>
Post-graduate Diploma in Medical Imaging & Radiation Sciences (MIRS) - Computed Tomography ( <b>PgD</b> )	12-24	<ul style="list-style-type: none"> <li>• <b>NU6310</b> Implementation of Evidence-Based Practice for Quality Improvement in Healthcare (10 credits)</li> <li>• <b>RA6024</b> Principles &amp; Practice of CT (B) (10 credits)</li> <li>• <b>RA6028</b> Clinical Practice (B) (10 credits)</li> </ul>
Master's in Medical Imaging & Radiation Sciences (MIRS) - Computed Tomography ( <b>MSc</b> )	24-36	<ul style="list-style-type: none"> <li>• <b>NU6304</b> Advanced Research Methods Applied to Healthcare (10 credits)</li> <li>• <b>RA6012</b> Research Dissertation (20 credits)</li> </ul>



# Programme Content

The Programme is design to equipment students with knowledge, skills and competencies across a range of CT examinations and technologies. Learning objectives for students are:

1. Demonstrate a comprehensive understanding of the principles, techniques, and applications of CT imaging.
2. Develop the skills necessary to acquire high-quality CT images, including correct patient positioning, selection of scan parameters, and use of contrast agents where appropriate.
3. Develop the ability to evaluate and interpret CT images accurately, identifying normal anatomical structures and recognising common pathological conditions.
4. Understand the principles of radiation safety in CT imaging, including dose optimisation strategies, patient shielding, and effective communication of radiation risks.
5. Gain hands-on experience in operating CT equipment, including knowledge of scanner functionalities, protocols, and image reconstruction techniques.
6. Develop skills in patient care and management during CT procedures, including effective communication, patient assessment, and provision of optimal patient comfort and safety.
7. Understand the importance of quality assurance and quality control measures in CT, including regular equipment maintenance, image quality evaluation, and adherence to protocols/regulatory guidelines.
8. Demonstrate professionalism, ethical conduct, and adherence to relevant codes of practice and regulations in the field of CT imaging.
9. Collaborate effectively with other healthcare professionals, including radiologists, radiographers, referring physicians to ensure coordinated patient care and accurate imaging outcomes.
10. Engage in research activities and contribute to the evidence base in CT, including the ability to critically appraise research literature, design, and conduct research projects, and contribute to the dissemination of research findings.
11. Recognise the importance of lifelong learning and engage in ongoing professional development activities to stay updated with advancements in CT.

## Contact Information

For Further Inquiries ([website](#)) ([email](#))

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Tuition Fees	EU (€)	Non-EU (€)
PgCert	3,000	5,000
PgDip	6,000	10,000
MSc	9,000	15,000