# MSc in AI & Digital Medical Imaging (for Health Professionals)

## Program Snapshot

| Field | Details |
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| Official Program Title | MSc in AI & Digital Medical Imaging (for Health Professionals) |
| Stacked Awards | PG Certificate (12 Cr) → PG Diploma (24 Cr total) → Master's (30 Cr total) |
| Delivery Mode | 100% online; asynchronous-first with structured synchronous support |
| Program Orientation | Academic / Professional |

## What is this master's?

This is a modern, non-licensure master's program designed to prepare health professionals to understand, evaluate, and responsibly apply AI and digital medical imaging in contemporary healthcare environments. The curriculum integrates imaging data foundations, interoperability standards, machine learning, deep learning, governance, and operational deployment in one coherent academic-professional structure.

## Why is this program important now?

Medical imaging is undergoing rapid digital transformation. Healthcare systems increasingly need professionals who can work across imaging science, AI evaluation, workflow integration, safety, and governance. This program responds directly to that demand by preparing graduates for the realities of modern imaging services, where data quality, model oversight, and implementation readiness are becoming strategic priorities.

## What makes it modern, distinctive, and innovative?

The program stands out by combining AI and digital medical imaging in a unified, practice-aware model rather than treating them as disconnected domains. Its modern value lies in its emphasis on DICOM/HL7 standards, model validation, robustness, bias and drift review, operational MLOps thinking, and workflow-ready governance. This makes it especially relevant to today's healthcare market, where institutions need implementable and auditable AI capacity rather than purely theoretical knowledge.

## Market relevance and career value

The program is strongly aligned with emerging market needs in hospitals, imaging centers, digital health initiatives, medical technology companies, imaging informatics teams, and healthcare innovation units. It supports career progression for professionals seeking roles related to imaging AI, workflow improvement, governance, data readiness, and digital transformation in clinically adjacent environments.

## Stacked pathway and awards

The program follows a flexible stacked-award structure that allows learners to progress through connected milestones: a Postgraduate Certificate, a Postgraduate Diploma, and finally the full Master of Science degree. This staged model offers recognized interim awards, supports working professionals, and provides a clear and coherent pathway toward advanced postgraduate achievement.

## Credit hours and duration

The full program comprises 30 credit hours within the university's approved stacked structure. Learners may complete a Postgraduate Certificate of 12 credits in about 8 months, continue to a Postgraduate Diploma of 24 total credits in about 12 months, and complete the full MSc of 30 total credits in approximately 18-24 months depending on study progression.

## Learning model

The program is delivered through a fully online model that combines asynchronous learning with structured synchronous academic engagement. Students benefit from guided digital content, documented weekly faculty interaction, applied assignments, feedback cycles, and optional live or recorded support sessions. Virtual simulation and structured viva-style assessments may also be used when academically appropriate.

## Program orientation

The program has an academic and professional orientation. At the final stage, students may complete either a thesis or a professional capstone, while remaining within one unified master's framework rather than two separate programs.

## What graduates gain

Graduates strengthen their ability to work with medical imaging data, evaluate AI models using defensible metrics, understand calibration, bias, drift, and robustness, and contribute to workflow-ready implementation plans grounded in governance, quality, and safety. They also develop stronger skills in reporting, interdisciplinary communication, and research or applied project execution.

## Who can apply?

The program is primarily suited to applicants with backgrounds in medicine, dentistry, health professions related to imaging, biomedical sciences, health informatics, or health-oriented computing and data fields. Applicants from closely related backgrounds may also be considered where they can demonstrate an appropriate foundation in anatomy, imaging literacy, statistics, or introductory programming.

## Admission suitability and academic fit

Admission decisions are based on the fit between the applicant's prior academic preparation and the intellectual demands of the program. Some applicants may be required to complete preparatory or bridging study, particularly in statistics, Python, or introductory imaging knowledge, in order to ensure readiness and academic consistency across the cohort.