# MEDICAL RADIATION PHYSICS (THESIS) (M.SC.) (45 CREDITS)

**Offered by:** Medical Physics Unit (Faculty of Medicine and Health Sciences)
**Degree:** Master of Science
**Program credit weight:** 45

## Program Description

The M.Sc. program in Medical Radiation Physics provides candidates with the knowledge required to enter into the field of medical physics. The program relies on a strong fundamental science background and enables candidates to undergo further training through a clinical residency program or to further advanced graduate studies in medical physics through a Ph.D. degree. Graduates from the program typically find employment in clinical settings, academia, industry, or governmental research and regulatory agencies. The program is accredited by the Commission for Accreditation of Medical Physics Education Programs (CAMPEP).

**Note**: For information about Fall 2025 and Winter 2026 course offerings, please check back on May 8, 2025. Until then, the "Terms offered" field will appear blank for most courses while the class schedule is being finalized.

## Thesis Courses (18 credits)

Expand allContract all

| Course | Title | Credits |
|---|---|---|
| MDPH 691D1 | MSc Thesis Research 2. | 9 |
| MDPH 691D2 | MSc Thesis Research 2. | 9 |

## Required Courses (27 credits)

Expand allContract all

| Course | Title | Credits |
|---|---|---|
| MDPH 601 | Radiation Physics. | 3 |
| MDPH 602 | Radiotherapy Physics. | 3 |
| MDPH 603 | Laboratory Radiotherapy Physics. | 2 |
| MDPH 607 | Medical Imaging. | 3 |
| MDPH 608 | Laboratory - Diagnostic Radiology and Nuclear Medicine. | 2 |
| MDPH 609 | Radiation Biology. | 2 |
| MDPH 610 | Instrumentation and Computation in Medical Physics 2. | 2 |
| MDPH 613 | Health Physics. | 2 |
| MDPH 614 | Physics of Diagnostic Radiology. | 3 |
| MDPH 615 | Physics of Nuclear Medicine. | 2 |
| MDPH 618 | Anatomy and Physiology for Medical Physics. | 3 |