

MSc in Medical Physics Postgraduate Scheme in Health Technology

FEATURES

Medical physics is an interdisciplinary field in which the concepts and methods of physics are applied to the diagnosis and treatment of human diseases. There is currently an indication of shortage of medical physicists due to the booming healthcare sector, and a high demand for medical physicists in Hong Kong and the nearby region. The scope of the proposed programme includes radiation therapy, diagnostic imaging, nuclear medicine and medical health physics, which fulfils the educational requirements of a medical physicist. The curriculum is designed to align with the international standards of medical physics graduate education. The teaching faculty includes a large number of experienced clinical professionals, including clinical medical physicists, oncologists, radiologists, etc. The programme prepares students for careers in clinical medical physics, medical technology research and development, academia, government, healthcare industry, entrepreneurship, etc.

CREDIT REQUIREMENTS

Students will be required to complete a total of 30 credits for the award of MScMP, including one compulsory subject (3 credits), seven core subjects (18 credits) and elective subjects.

Compulsory subject (3 credits)

- Research Methods & Biostatistics (3 credits)

Core subjects (18 credits)

- Radiation Physics (3 credits)
- Radiation Protection and Radiation Safety (3 credits)
- Human Anatomy and Physiology (3 credits)
- Radiation Therapy Physics (3 credits)
- Medical Imaging Physics (3 credits)
- Radiobiology for Medical Physicists (2 credits)
- Ethical Issues in Medicine and Research (1 credit)

Elective subjects (9 credits)

- Clinical Practicum of Medical Physics (3 credits)
- Practical Radiotherapy Treatment Planning (3 credits)
- Dissertation (9 credits)
- Multiplanar Anatomy (3 credits)
- Advanced Radiotherapy Planning and Dosimetry (3 credits)
- Advanced Technology and Clinical Application in Computed Tomography (3 credits)
- Advanced Technology and Clinical Application in Magnetic Resonance Imaging (3 credits)
- Advanced Technology and Clinical Application in Nuclear Medicine Imaging (3 credits)
- Bioinformatics in Health Sciences (3 credits)
- Digital Imaging and PACS (3 credits)
- Advanced Radiation Protection (3 credits)
- Advanced Topics in Health Technology (guided study) (3 credits)
- Molecular and Functional Imaging: From Body System to Molecules (3 credits)
- Knowledge Management for Clinical Applications (3 credits)
- Virtual Reality in Healthcare (3 credits)

TUITION FEE

HK\$6,000 per credit for local and non-local students

MODE OF ATTENDANCE

Mixed-mode (full-time or part-time)

NORMAL DURATION

1.5 years for full-time study

3 years for part-time study

ENTRANCE REQUIREMENTS

Bachelor's degree in Physics, or Applied/Engineering Physics, Natural Sciences, Mathematics, Engineering, Radiography or Health Technology

OPTION TO EXIT

There is an option to exit with a PgD in Medical Physics by completing 18 credits with 12 credits from the core subjects and 6 credits from the electives.

FELLOWSHIP SCHEME

Targeted Taught Postgraduate Programmes Fellowships Scheme is offered by University Grants Committee (UGC). Please view https://www.ugc.edu.hk/eng/ugc/activity/targeted_postgraduate_scheme.html for details.

CONTACT INFORMATION

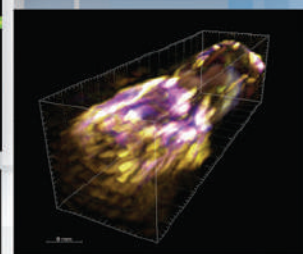
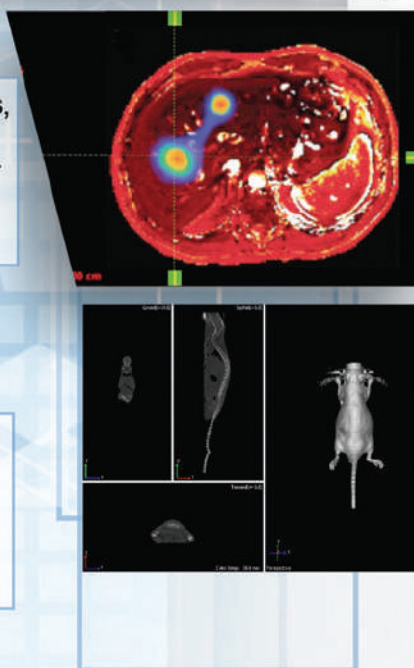
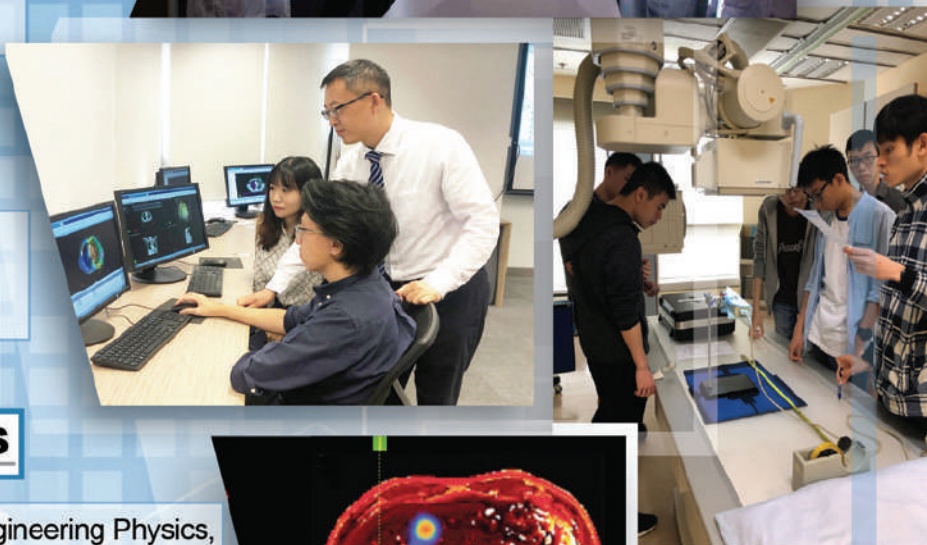
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e-Prospectus

