



# Master of Advanced Studies in Medical Physics

January 2025 - December 2026



The Abdus Salam International Centre for Theoretical Physics (ICTP) and the University of Trieste, Italy, announce the twelfth edition of the Master of Advanced Studies in Medical Physics (MMP), a two-year training programme, under the patronage of the Trieste University Hospital.

The programme will be held from 1 January 2025 until 31 December 2026 leading to an Advanced Studies Master's Degree in Medical Physics. The first year is spent in Trieste while the second year is dedicated to clinical training in a hospital of the training network. Courses are held in English.

The programme is designed to provide young promising M.Sc. graduates in physics or equivalent (mainly from low and medium income countries that are members of the UN, UNESCO or IAEA) with post-graduate training suitable to be recognized as Clinical Medical Physicists in their countries.

The selection of maximum 30 candidates is based on university performance, research and professional activities in the field. A limited number of scholarships will be awarded to successful candidates thanks to the support of the IAEA and ICTP.

The Master's Programme is under re-accreditation by the International Organisation for Medical Physics (IOMP).

## Topics:

### FIRST YEAR PROGRAMME:

Anatomy, physiology and radiation oncology as applied to medical physics - Radiobiology - Radiation physics - Radiation dosimetry - Physics of nuclear medicine - Medical physics imaging fundamentals - Physics of diagnostic and interventional radiology (X rays, US, MRI, Hybrid systems) - Physics of radiation oncology - Radiation protection - Information Technology in medical physics - Monte Carlo simulation - Statistics  
**IN TOTAL 330 HOURS OF LESSONS AND 230 HOURS OF GUIDED EXERCISES**

### SECOND YEAR PROGRAMME:

Clinical training in radiotherapy, diagnostic and interventional radiology, nuclear medicine and radiation protection in a Medical physics department of a hospital of the clinical network.  
**IN TOTAL 1600 HOURS**

More information on the selection procedure and scholarships can be found at:

<http://www.ictp.it/programmes/mmp.aspx>

Activity e-mail:  
**mmp@ictp.it**

## How to apply:

Online application:  
<http://www.ictp.it/programmes/mmp.aspx>

Female scientists are encouraged to apply.

## Grants:

A limited number of full or partial scholarships will be awarded to successful candidates from developing countries, thanks to the support of the IAEA and ICTP.

## Deadline:

**15 April 2024**



The programme is accredited by the IOMP

