



UNIVERSITÀ  
DEGLI STUDI DI TRIESTE

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The Abdus Salam  
International Centre  
for Theoretical Physics



## MASTER'S OF ADVANCED STUDIES IN MEDICAL PHYSICS

2016 – 2017

The Abdus Salam International Centre for Theoretical Physics (ICTP) and the University of Trieste, Italy announce the third Master's Programme in Medical Physics (MMP), a two-year training programme in the field of Medical Physics, co-sponsored by The World Academy of Science (TWAS) with the patronage of the Trieste University Hospital.

The programme will be held from 1 January 2016 until 31 December 2017 and will lead to an Advanced Studies Master's Degree in Medical Physics. The first year will be spent in Trieste, Italy, while the second year will be dedicated to clinical professional training in a medical physics department of a hospital in the programme's training network. Courses are held in English.

The Master's Programme is designed to provide young promising graduates in physics or equivalent (mainly from developing countries that are members of the United Nations, UNESCO or IAEA) with post-graduate theoretical and clinical training suitable to be recognised as Clinical Medical Physicists in their countries.

The minimum qualification for applicants is a degree equivalent to a M.Sc. in Physics or related fields. Candidates who have received their degree outside Italy must obtain a "Dichiarazione di Valore" from the Embassy in their country, testifying that their curriculum studiorum is equivalent to the Italian "Laurea specialistica" (12 years of primary and secondary school and a University study allowing to enter in a PhD programme). The selection of candidates will be based on their university performance, research activity and professional experience in the field. Adequate proficiency in the English language is required. The maximum number of students admitted is 18.

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

More information on the selection procedure and scholarships can be found on the programme's website at

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

### FIRST YEAR PROGRAMME:

*Anatomy and physiology 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 - Medical 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 hospital of the clinical network (hospitals in Northern Italy and other nearby countries)*

IN TOTAL 1200 HOURS

To apply online: <https://onlineapps.ictp.it/ENTER/APPLICANT/1773.mhtml>

Application deadline: 15 June 2015



For more information please visit the programme website: <http://www.ictp.it/programmes/mmp.aspx>