

Postgraduate University Course **MEDICAL PHYSICS**

Medical University of Vienna
Center of Medical Physics and
Biomedical Engineering

Wolfgang BIRKFELLNER

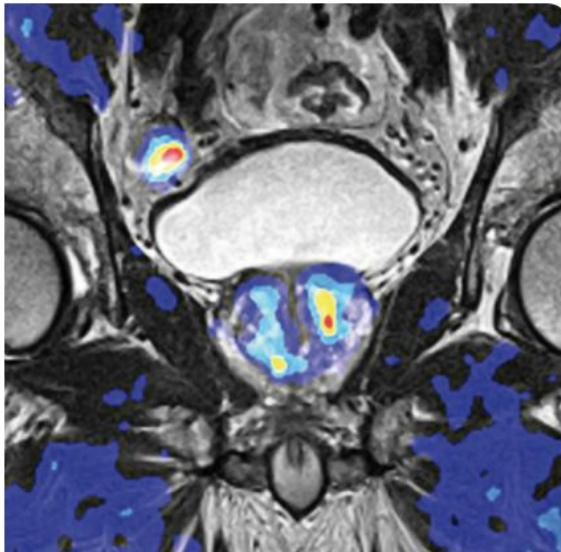
The course was founded in 1989 and aims at physicists who are interested in a career in Medical Physics in a clinical environment or in healthcare industry. The course is fully compliant with national and international requirements for the theoretical education of medical physics experts.

AUDIENCE

- The course is open for physicists with a MSc – degree from a regular physics program on a university level; attendees with a BSc in physics may also apply, but have to finish their MSc-degree before graduating from this course. Students must demonstrate a solid education in nuclear physics at a university level.
- Students with an education in a related field with a very solid background in physics and mathematics may apply as well – detailed requirements are available from the organizers of this course.

DEGREE

- The course is compliant with the education guidelines of the European Federation of Medical Physicists (EFOMP) and current drafts of EU – guidelines for the education of medical physics experts. In order to obtain a board certification as a medical physicist, it may be necessary in some countries of the European Union to have additional practical training on the job.
- Upon successful completion of the course, participants obtain the title „Academically Approved Medical Physicist“; more details are available from the organizers of this course.



ORGANIZATION

- The course lasts for six semesters and usually meets six dates per semester for two day blocks of lectures and practica (Friday and Saturday). For lectures, attendance is not compulsory and e-learning materials will be provided. However, the practica have to be attended in Vienna. Exams are held at the end of the semester.
- In total, the course consists of 315 hours (56 ECTS) in lectures and 135 hours (12 ECTS) from practical lessons.
- Course language is English.
- Tuition fee per semester: € 670



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MODULES

MODULES	ECTS
Anatomy	4
Physiology	6
Clinical Oncology and Radiotherapy	2
Biomathematics and Statistics	2
Biophysics	2
Medical Optics and Optical Imaging	2
Laser Safety	2
Biomedical Engineering	2
Physical Measurement Techniques	2
Hospital Management	2
Radiation Biology	2
Ultrasound	3
Radiodiagnosics I	3
Radiodiagnosics II	3
Radiation Therapy I	5
Radiation Therapy II	3
Radiation Therapy III	3
Nuclear medicine I	3
Nuclear Medicine II	3
Magnetic Resonance Imaging I	3
Magnetic Resonance Imaging II	2
Digital Image Processing I	3
Digital Image Processing II	3
Medical Radiation Protection	3

CONTACT

Center of Medical Physics
and Biomedical Engineering



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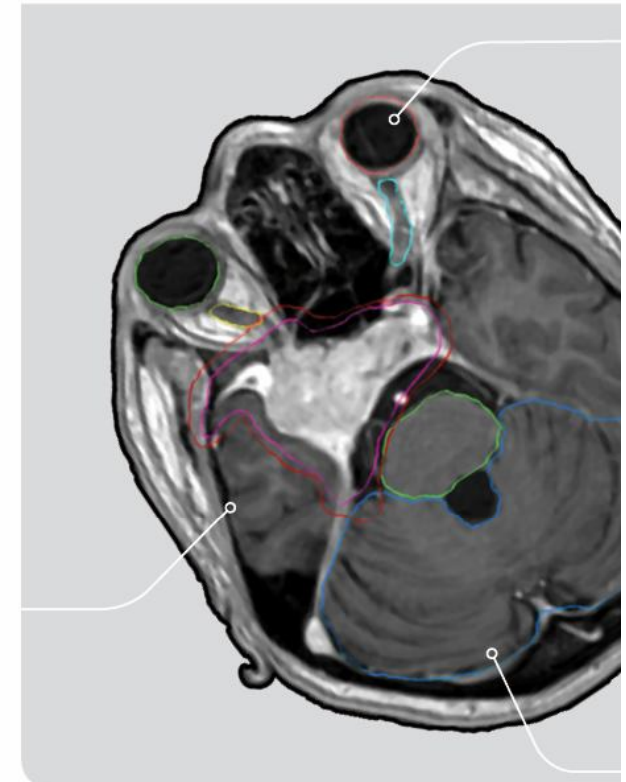
Medical University of Vienna
Währinger Gürtel 18- 20, AKH 4L,
A-1090 Vienna,
Austria

Contact E-mail:
ulgmedphys@meduniwien.ac.at

Web:
www.zmpbmt.meduniwien.ac.at/ulg_medicalphysics



Approved by the
Austrian Society of Medical Physics,
Member of EFOMP
www.oegmp.at



Postgraduate University Course

MEDICAL PHYSICS

Medical University of Vienna
Center of Medical Physics and Biomedical Engineering

- Approved by the Austrian Society as well as by the Ministry of Health
- For beginning physicists in Austria paid by the hospitals
- Approved also by the Germans (DGMP)
- Will be approved 2016 by the EFOMP