

Ph.D. in Medical Physics

Title of the program: Ph.D. in Medical Physics

Duration: 4 years at two levels of education and research

- Qualifications required:
 - Passing the entrance exam from M.Sc. degree to Ph.D. degree, or having a degree in MDs.
- Graduation Conditions: Passing 24 courses for the education level and 24 credits for the research level

No.	Course Title	Coefficient
1	Core courses	16 credits
2	Non-core courses	8 credits
3	Thesis	24 credits
Total		48

Table A. Core Courses: Ph.D. in Medical Physics

No.	Course Title	Number of Credits	Number of Hours (Theoretical-Practical)	Total	
1	Radiobiology	2	34	34	-
2	Principles of Physics and Electronics for Medical Instruments	2	34	34	-
3	Principles of Working with Medical Instruments	3	51	51	-
4	Physic Principles of Ultrasound Radiations and Instruments	2	34	34	-
5	Application of Generating Sources of Radiation and Radioactive Material in Diagnosis and Treatment	3	51	51	-
6	Dosimetry and Protection Against Ionizing and Non-ionizing Radiations	3	51	51	-
7	Laser and its Application in Medicine	1	17	17	Only Theoretical
Total		16			

Table B. Non-Core Courses: Ph.D. in Medical Physics

No.	Course Title	Number of Credits	Number of Hours (Theoretical-Practical)	Total	
1	Medical Imaging	3	51	51	-
2	Advanced Issues in Optical Spectrum and Medical Audiometry	2	34	34	-
3	Cellular and Molecular Biologic Principles	2	34	34	-
4	Theoretical Biology	2	34	34	Only Theoretical
5	Bioelectricity	2	34	34	-
6	Principles of Biomechanics	2	34	34	-
7	Electromagnetic Fields and their Application in Medicine	2	34	34	-
Total		15			