Medical Physics
(Bachelor)

Higher Education Institution	National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Country	Russia
City	Moscow
Web-site	https://eng.mephi.ru
Name of the Programme	Medical Physics
Degree awarded	Bachelor
Qualification Level (first/ second cycle)	First cycle
Programme objectives; Profile	Providing a higher professional profiled education that allows the graduate to work successfully in the field of medical physics, to understand the basic physical principles that underlie the work of medical devices and installations; to get competencies that promote his social mobility and stability in the labor market.
Programme Duration	4 years
Total number of ECTS Credits awarded	240
Curriculum analysis (% and credits): – **engineering fundamentals and advanced engineering subjects (including final thesis)** – **mathematics / natural sciences fundamentals** – **humanities and socioeconomics studies** - **other**	Engineering fundamentals and advanced engineering subjects (including final thesis): 144 ECTS Credits (60,0%) Mathematics / natural sciences fundamentals: 45 ECTS Credits (18,8%) Humanities and socioeconomics studies: 37 ECTS Credits (15,4%) Other: 14 ECTS Credits (5,8%)
Brief description of the programme	The bachelor's program “Medical Physics” includes the disciplines of the humanities module (foreign language, history, philosophy, cultural studies), the natural sciences module (mathematical analysis, linear algebra, differential and integral

	equations, general physics, chemistry) and the professional module (medical electronics, human biology and anatomy, tomographic methods in medicine, basics of introscopy, physics of imaging in medicine, medical installations and radiation detectors, etc.) A large amount of training time is devoted to research practice, which will help to develop skills in modern apparatus and equipment, skills in the practical use of physics methods to solve practical problems in the field of radiation diagnostics and therapy, and radioisotope diagnostics in medicine.