

**KAUNAS UNIVERSITY OF TECHNOLOGY**  
**FACULTY OF FUNDAMENTAL SCIENCES**

[www.ktu.lt](http://www.ktu.lt)

**MEDICAL PHYSICS (MSc. study program)**

**Contact person : Prof. Diana Adliene (diana.adliene@ktu.lt)**

**Duration 2 years**

**120 ECTS**

**Qualification: MSc in Biophysics**

**1 term**

<b>Subject</b>	<b>National credits</b>	<b>ECTS</b>
1 Statistics and mathematical modeling (P001M001)	2	3
2 Fundamentals of human anatomy and physiology (B470M001)	4	6
3 Interaction of radiation with matter (P220M001)	4	6
4 Radiation protection and safety (B140M006)	4	6
5 Radiobiology (B145M002)	2	3
6 Scientific work 1 (B000M001)	4	6
<b>Total:</b>	<b>20</b>	<b>30</b>

**2 term**

<b>Subject</b>	<b>National credits</b>	<b>ECTS</b>
1 Image analysis and recognition (T111M165)	4	6
2 Visualization methods in medicine (B140M001)	4	6
3 Radiation detectors and registration methods (T160M004)	4	6
4 Scientific work 2 (B000M002)	4	6
5 Free to choose 2010 (magistrantūra)	4	6
<b>Total:</b>	<b>20</b>	<b>30</b>

**3 term**

<b>Subject</b>	<b>National credits</b>	<b>ECTS</b>
1 Dosimetry (B140M005)	2	3
2 Applied radionuclide physics (B145M010)	2	3
3 Radiation diagnostic physics (B140M003)	4	6
4 Radiation therapy physics (B140M004)	4	6
5 Applied nonionizing radiation physics (B140M100)	4	6
6 Scientific work 3 (B000M003)	4	6
<b>Total:</b>	<b>20</b>	<b>30</b>

**4 term**

<b>Subject</b>	<b>National credits</b>	<b>ECTS</b>
1 Magistro baigiamasis darbas (B000M004)	20	30
<b>Total:</b>	<b>20</b>	<b>30</b>