

**Topics of lectures on Biophysics for students
of Dental medicine
Academic year 2025/2026**

WEEK:	TOPIC:
1.	Biophysics and medicine. Structure of matter
2.	Absorption of electromagnetic radiation. Pulse oximetry
3.	Nuclear radiation and its application in medicine
4.	Nuclear magnetic resonance in medicine
5.	Positron emission tomography
6.	Ultrasound diagnostic methods
7.	Lasers in medicine
8.	X rays – the nature and physical properties
9.	Conventional radiography and CT
10.	Membrane biophysics
11.	Bioelectricity
12.	Biophysics of cardiovascular system
13.	Biomechanics
14.	Physical principles of dental technologies

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