

Course description

General information about the course		
1. Major of study: medicine	2. Study level: unified MSc 3. Form of study: intramural	
4. Year: III	5. Semester: V	
6. Course name: Biophysics		
7. Course status: required		
<p>8. Course contents and assigned learning outcomes:</p> <p>Is able to define selected biophysical concepts and knows the selected laws of physics. Knows the role of physical and biophysical environmental factors in the creation, development and shaping of the phenomenon of life. Knows the mechanisms and effects of the impact of physical and biophysical environmental factors (natural and artificially created by man) on the human body at various stages of its development and different periods of life. Knows the biophysical foundations of organs and organ systems of the human body and other living organisms. Knows the theoretical foundations and uses in practice laws and physical phenomena and biophysical regularities (in medical diagnostics, prevention and treatment). Knows the principles of functioning of diagnostic and therapeutic equipment (on selected examples). Knows selected measuring instruments and physical apparatus. Understands and applies in practice selected concepts and laws of physics and biophysics Uses the laws of physics and biophysics to describe issues in the field of cell and tissue biology and physiological processes.</p> <p>Learning outcomes / reference to learning outcomes indicated in the standards For knowledge – student knows and understands: B.W5,B.W6,B.W7,B.W8, B.W9 For skills student can do : B.U1,B.U2,B.U9, B.U13 For social competencies student is ready to: K.4</p>		
9. Number of hours for the course		15
10. Number of ECTS points for the course		1
11. Methods of verification and evaluation of learning outcomes		
Learning outcomes	Methods of verification	Methods of evaluation*
Knowledge	Continuous observation Oral answer Test Summary methods: Test Written exam / test exam	<ul style="list-style-type: none"> • Very good (5,0) • Better than good (4,5) • Good (4,0) • Better than satisfactory (3,5) • Satisfactory (3,0) • Unstatisfactory (2,0)
Skills	Continuous observation Oral answer Test Summary methods: Test Written exam / test exam	<ul style="list-style-type: none"> • Very good (5,0) • Better than good (4,5) • Good (4,0) • Better than satisfactory (3,5) • Satisfactory (3,0) • Unstatisfactory (2,0)

Competencies	Observation	
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* The following evaluation system has been assumed:

Very good (5,0) – the assumed learning outcomes have been achieved and significantly exceed the required level

Better than good (4,5) – the assumed learning outcomes have been achieved and slightly exceed the required level

Good (4,0) – the assumed learning outcomes have been achieved at the required level

Better than satisfactory (3,5) – the assumed learning outcomes have been achieved at the average required level

Satisfactory (3,0) – the assumed learning outcomes have been achieved at the minimum required level

Unsatisfactory (2,0) – the assumed learning outcomes have not been achieved