



CALENDAR-THEMATIC SCHEDULE OF LECTURES  
on a subject **BIOPHYSICS, PHYSICAL METHODS OF  
ANALYSIS** for 1st year students

of speciality **226 Pharmacy, industrial pharmacy**

(Specialty Title and Code)

autumn semester, 2021-2022

1  
(group code)

№	Date	The topic of the lecture	Number of hours	Lecturer
<b>Content module 1. Fundamentals of General Biophysics</b>				
1.	15.09.2021	Mechanical oscillations and waves.	1	Dr. Nadiia Sheykina
2.	15.09.2021	Biophysics of muscle contraction.	1	Dr. Nadiia Sheykina
3.	29.09.2021	Molecular Physics.	1	Dr. Nadiia Sheykina
4.	29.09.2021	Thermodynamics.	1	Dr. Nadiia Sheykina
5.	13.10.2021	Thermodynamics of biological processes.	1	Dr. Nadiia Sheykina
6.	13.10.2021	Molecular Biophysics.	1	Dr. Nadiia Sheykina
7.	27.10.2021	Biophysics of vision.	1	Dr. Nadiia Sheykina
8.	27.10.2021	Biophysics of hearing.	1	Dr. Nadiia Sheykina
9.	10.11.2021	Transport of substances through biological membranes. (Part I)	1	Dr. Nadiia Sheykina
10.	10.11.2021	Transport of substances through biological membranes. (Part II)	1	Dr. Nadiia Sheykina
<b>Content module 2. Fundamentals of Applied Biophysics</b>				
11.	24.11.2021	Hydrostatics and hydrodynamics.	1	Dr. Nadiia Sheykina
12.	24.11.2021	Biophysics of the blood system.	1	Dr. Nadiia Sheykina
13.	08.12.2021	Electromagnetism.	1	Dr. Nadiia Sheykina
14.	08.12.2021	Biophysics of nerve impulses.	1	Dr. Nadiia Sheykina
15.	22.12.2021	Nuclear physics.	1	Dr. Nadiia Sheykina
16.	22.12.2021	The action of physical factors on biological objects. Own physical fields of human.	1	Dr. Nadiia Sheykina
17.	12.01.2022	Mathematical Biophysics. (Part I)	1	Dr. Nadiia Sheykina
18.	12.01.2022	Mathematical Biophysics. (Part II)	1	Dr. Nadiia Sheykina
19.	26.01.2022	Physical methods of analysis. (Part I)	1	Dr. Nadiia Sheykina
20.	26.01.2022	Physical methods of analysis. (Part II)	1	Dr. Nadiia Sheykina
<b>Total:</b>			<b>20</b>	

Note: the lecture is going on Wednesday at 10.25-12.05 hours in room № 313  
(weekday) (lecture time) (room number)

Department Chairman

(підпис)

Dr. Lidia KAIDALOVA



## CALENDAR-THEMATIC SCHEDULE OF PRACTICAL CLASSES

on a subject **BIOPHYSICS, PHYSICAL METHODS OF  
ANALYSIS** for 1st year students

of speciality **226 Pharmacy, industrial pharmacy**

(Specialty Title and Code)

1  
(group code)

*autumn semester, 2021-2022*

№	Date	The topic of the lesson	Number of hours	The system of assessment, scores	
				min	max
<b>Content module 1. Fundamentals of General Biophysics</b>					
1.	15.09.2021	Mechanical oscillations and waves. Biophysics of muscle contraction.	4	3	5
2.	29.09.2021	Molecular Physics. Thermodynamics.	4	3	5
3.	13.10.2021	Thermodynamics of biological processes. Molecular Biophysics.	4	3	5
4.	27.10.2021	Biophysics of vision. Biophysics of hearing.	4	3	5
5.	10.11.2021	Transport of substances through biological membranes.	4	3	5
Thematic module control № 1				3	5
<b>Total in 1st content module:</b>			<b>20</b>	<b>18</b>	<b>30</b>
<b>Content module 2. Fundamentals of Applied Biophysics</b>					
6.	24.11.2021	Hydrostatics and hydrodynamics. Biophysics of the blood system.	4	3	5
7.	08.12.2021	Electromagnetism. Biophysics of nerve impulses.	4	3	5
8.	22.12.2021	Nuclear physics. The action of physical factors on biological objects. Own physical fields of human.	4	3	5
9.	12.01.2022	Mathematical Biophysics.	4	3	5
10.	26.01.2022	Physical methods of analysis.	4	3	5
Thematic module control № 2				3	5
<b>Total in 2nd content module:</b>			<b>20</b>	<b>18</b>	<b>30</b>
<b>TOTAL</b>			<b>40</b>	<b>36</b>	<b>60</b>
<b>THE FINAL MODULAR CONTROL</b>				<b>24</b>	<b>40</b>
<b>Increase rating from the module: «Biophysics, physical methods of analysis»</b>					
<b>TOTAL FOR THE STUDY OF THE MODULE</b>				<b>60</b>	<b>100</b>

Department Chairman

(підпис)

Dr. Lidia KAIDALOVA