



CALENDAR AND THEMATIC PLAN OF LECTURES

from the educational component

"Biology and Fundamentals of Genetics" for the 1st year
specialties 226 Pharmacy, industrial pharmacy,
specialization 226.01 Pharmacy

EP "Pharmacy", ФМ24(4,10д) англ-01
(Spring semester, 2024–2025 academic year)

№	Date	Lesson Name	Volume in hours	Lecturer
MODULE 1. Biology and Fundamentals of Genetics				
1.	07.02.2025	Introduction to biology.	2	ass.prof. Seniuk I.V.
2.	21.02.2025	Cell membranes. Organelles of eukaryotic cell.	2	ass.prof. Seniuk I.V.
3.	07.03.2025	Hereditary material organization.	2	ass.prof. Seniuk I.V.
4.	21.03.2025	Mitosis and meiosis. Cell cycle regulation	2	ass.prof. Seniuk I.V.
5.	04.04.2025	Human life cycle: postembryonic period.	2	ass.prof. Seniuk I.V.
6.	18.04.2025	Basic morphophysiological characteristics and stages of ontogenesis. Critical	2	ass.prof. Seniuk I.V.
7.	02.05.2025	Introduction to human genetics.	2	ass.prof. Seniuk I.V.
8.	16.05.2025	Introduction to medical parasitology. Parasitic protozoa.	2	ass.prof. Seniuk I.V.
9.	30.05.2025	Helminths: general characteristics, classification, medical importance.	2	ass.prof. Seniuk I.V.
Total:			18	

Note: the lecture take place on Friday from 10:25 to 12:05 online.

**Head of the Department of
Clinical Laboratory Diagnostics,
Microbiology and Biological Chemistry**

Vira KRAVCHENKO



**CALENDAR-THEMATIC PLAN
OF PRACTICAL LESSONS**
from the educational component
"Biology and Fundamentals of Genetics" for the 1st year
specialties 226 Pharmacy, industrial pharmacy,
specialization 226.01 Pharmacy
EP "Pharmacy", ФМ24(4,10Д) англ-01
(Spring semester, 2024–2025 academic year)

№	Date	Lesson Name	Volume in hour	Knowledge Assessment System, points	
				min	max
CONTENT MODULE 1.					
BIOLOGICAL FEATURES OF HUMAN LIFE. BIOLOGY OF INDIVIDUAL DEVELOPMENT					
1	04.02.2025	Introduction to biology. Basic methods of biological research. The cell is the main structural and functional unit of living things. Elemental and chemical composition of the cell.	4	4	8
2	18.02.2025	Biomembranes: structure and functions. Types of membrane transport. Asexual and sexual reproduction. Cell cycle. Mitosis.	4	4	8
3	04.03.2025	Sex cells. Meiosis. Gametogenesis. Biological features of human reproduction. Fertilization. Methods of contraception.	4	4	8
4	18.03.2025	Basic morphophysiological characteristics and stages of ontogenesis. Critical periods of development. Basics of gerontology and geriatrics. Old age as a stage of ontogenesis. Theories of aging.	3	4	8
		Final test of CM 1 assimilation	1	14	18
Total from CM 1:				30	50
CONTENT MODULE 2.					
BASICS OF HUMAN GENETICS. BASICS OF MEDICAL PARASITOLOGY.					
5	01.04.2025	Introduction to genetics, basic concepts. Independent inheritance of genes. Methods of genetic research.	4	3	6
6	15.04.2025	Linked inheritance. Gender genetics. Theory of gender determination. Variability. Hereditary human diseases.	4	3	6
7	29.04.2025	Biological bases of parasitism and parasitic invasions in humans.	4	3	6
8	13.05.2025	Medical protozoology.	4	3	6
9	27.05.2025	Medical helminthology. Medical arachnoentomology.	4	3	6
10	10.06.2025	Final test of CM 2 assimilation	3	15	20
		Semester credit of the module "Biology and Fundamentals of Genetics"	1		
Total from CM 2:				30	50
TOTAL RATING FOR MODULE 1			40	60	100

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