

Practical training plan
In the discipline BIOLOGY for first-year students in the specialty
31.05.01-General medicine 2026/2027 academic year

Les son	topic	Hours
I semester		
1.	Microscope and rules for working with it, microscopy of biological objects. Production of temporary wet micro-preparations Voprosy ekologii I	4
2.	Voprosy ekologii II	4
3.	Cell cycle. Reproduction at the organizational level. Methods of asexual and sexual reproduction.	4
4.	Gametogenesis. Molecular basis of heredity (I).	4
5.	Molecular basis of heredity (II).	4
6.	Molecular basis of heredity (III). Introduction to genetics, patterns of independent inheritance (G. Mendel's laws).	4
7.	Interaction of allelic genes. Mechanisms of inheritance of blood groups in humans. Interaction of non-allelic genes.	
8.	Colloquium I.Reproduction. Genetics.	4
9.	Pleiotropic effect of the gene. Penetrance and expressiveness. Linked inheritance of genes. The chromosomal theory.	4
10.	Gender genetics. Phenotypic variability.	4
11.	Genotypic variability.	4
12.	Human genetics I.Types of inheritance.	4
13.	Human genetics II. Medical and genetic counseling. Prevention of hereditary diseases.	4
14.	Human genetics III. Hereditary human diseases.	4
15.	Colloquium II. Genetics	4
II semester		
16.	Type Flatworms (Plathelminthes). Class Flukes (Trematoda) - part I.	2
17.	Type 2 Flatworms (Plathelminthes). Class Flukes (Trematoda) - Part II.	2
18.	Type 2 Flatworms (Plathelminthes). Class Tapeworms (Cestoidea) - Part I.	2
19.	Type 2 Flatworms (Plathelminthes). Class Tapeworms (Cestoidea) - Part II.	2
20.	Type Roundworms (Nemathelminthes). Class Proper roundworms (Nematoda) - Part I.	2
21.	Type Roundworms (Nemathelminthes). Class Proper roundworms (Nematoda) - Part II.	2
22.	Colloquium on medical helminthology.	2
23.	Protozoa (Sub-Kingdom Protozoa,Type Sarcomastigofora (Sarcomastigofora, Class SarcodinaSarcodina; Type Апикомплексы (Apicomplex, ClassSporozoa.	2
24.	Protozoa (Sub-kingdom Protozoa,A Type of Sarcomastigophora (Sarcomastigofora)., Class FlagellataFlagellata; Type Of InfusoriaInfusoria.	2
25.	Fundamentals of arachnoentomology. Type Arthropods (Arthropoda), Class Arachnids (Arochnoidea).	2
26.	Type 2 Arthropodsis Arthropoda, ClassInsecta, Order Lice (Anoplura), and Order Fleas (Aphaniptera).	2
27.	Type 2 Arthropods,ClassInsecta,Order,Diptera.	2
28.	Colloquium on medical protozoology and arachnoentomology.	2
29.	Phylogeny of the circulatory system in the Chordate Phylum.	2
30.	Colloquium on practical skills.	2
Total:		90