

**Practical lesson plan**  
**In the discipline BIOLOGY for first year students in the specialty**  
**31.05.03 - dentistry for the 2023/2024 academic year**

№	Topic	Hour
<b>I semester</b>		
1.	Microscope and rules of working with it, microscopy of biological objects. Making temporary wet microslides	2
2.	The principle of temporal organization of the cell, the cell cycle.	2
3.	Reproduction at the organismal level, methods of asexual and sexual reproduction.	2
4.	Molecular basis of heredity (I).	2
5.	Molecular basis of heredity (II).	2
6.	Molecular basis of heredity (III).	2
7.	Introduction to genetics, patterns of independent inheritance (G. Mendel's laws).	2
8.	Interaction of allelic genes. Mechanisms of inheritance of blood groups in humans.	2
9.	Interaction of non-allelic genes, pleiotropic effect of the gene. penetrance and expressivity).	2
10.	Colloquium on Genetics (I).	2
11.	Linked inheritance of genes. Chromosome theory.	2
12.	Genetics of sex.	2
13.	Forms of variability: phenotypic, combinative, teratogenesis, carcinogenesis	2
14.	Methods for studying human heredity (I), types of inheritance.	2
15.	Methods for studying human heredity (II), medical genetic counseling.	2
16.	Colloquium on Genetics (II).	2
<b>II semester</b>		
17.	Type Flatworms (Plathelminthes). Class Flukes (Trematoda) – Part I.	2
18.	Type Flatworms (Plathelminthes). Class Flukes (Trematoda) – Part II.	2
19.	Type Flatworms (Plathelminthes). Class Tapeworms (Cestoidea) - Part I.	2
20.	Type Flatworms (Plathelminthes). Class Tapeworms (Cestoidea) - Part II.	2
21.	Type Roundworms (Nemathelminthes). Class Actually roundworms (Nematoda) – Part I.	2
22.	Type Roundworms (Nemathelminthes). Class Actually roundworms (Nematoda) – Part II.	2
23.	Colloquium on medical helminthology.	2
24.	Subkingdom Protozoa, Type Sarcomastigofora, Class Sarcodina; Type Apicomplex, Class Sporozoa.	2
25.	Subkingdom Protozoa, Phylum Sarcomastigofora., Class Flagellates (Flagellata); Type of Ciliates (Infusoria).	2
26.	Fundamentals of arachnoentomology. Phylum Arthropoda (Arthropoda), Class Arachnida (Arochnoidea).	2
27.	Phylum Arthropoda (Arthropoda), Class Insects (Insecta), Order Lice (Anoplura) and Order Fleas (Aphaniptera).	2
28.	Phylum Arthropods (Arthropoda), Class Insects (Insecta), Order Diptera (Diptera).	2
29.	Colloquium on medical protozoology and arachnoentomology.	2
30.	Phylogeny of the circulatory system in the Phylum Chordata.	2
31.	Phylogeny of the genitourinary system in the Phylum Chordata.	2
32.	Colloquium on practical skills.	2
<b>Hours</b>		<b>72</b>