

**Planned Schedule of Biology Lectures and Practical Classes
(2018/2019 study year)**

1st semester

Lectures

№	Date	Topics	hours
1.	01.10.2018-12.10.2018	Biology - the science of life, as the basis of medicine.	2
2.	15.10.2018-26.10.2018	Cell Biology. The scientific method. Structure and functions of cell organelles.	2
3.	22.10.2018-02.11.2018	Structure and functions of cell membrane.	2
4.	05.11.2018-16.11.2018	History of development of Genetics. Mendel's Genetic Laws.	2
5.	19.11.2018-30.11.2018	Gene Interactions. Epistasis. Polygenic Inheritance. Gene Expression.	2
6.	03.12.2018-14.12.2018	Structure of DNA. Semiconservative mechanism of replication.	2
7.	17.12.2018-28.12.2018	Introduction to Parasitology. General and Medical Protozoology	2
8.	31.12.2018-04.01.2019	General characteristics of <i>Subphylum Mastigophora. Genus Leishmania.</i>	2
9.	07.01.2019-18.01.2019	General characteristics of <i>Phylum Apicomplexa. Class Sporozoa.</i>	2
10.	21.01.2019-01.02.2019	General characteristics of <i>Phylum Ciliophora. Class Ciliata.</i>	2

Practice

№	Date	Topics	hours
1.	02.10.2018-06.10.2018	Living systems. Characteristics of living system.	2
2.	09.10.2018-13.10.2018	The role of living systems in Biosphere. Levels of organization of living things.	2
3.	16.10.2018-20.10.2018	Study methods in Biology. Structure of a pro- and eukaryotic cells.	2
4.	23.10.2018-27.10.2018	Cell Organelles: Structure and Functions.	2
5.	30.10.2018-03.11.2018	Cell division. Types of sexual and asexual reproduction.	2
6.	06.11.2018-10.11.2018	Pass unit I.	2
7.	13.11.2017-17.11.2017	Types of plant and animal reproduction. The role of meiosis.	2
8.	20.11.2017-24.11.2017	Monohybrid and dihybrid crosses.	2
9.	27.11.2017-01.12.2018	Types of gene interactions.	2

10.	11.12.2017-15.12.2017	Introduction to Human Genetics. Human karyotype. Types of chromosomal abnormalities.	2.
11.	18.12.2018-22.12.2018	Genetics Problem Solving. Sex-linked hereditary diseases. Pedigree analysis.	2.
12.	25.12.2018-29.12.2018	Human genome and therapy of hereditary diseases. Recessive and dominant autosomal hereditary diseases. Genetics Problem Solving. Modern methods of human genetics research and diagnosis of hereditary diseases.	2
14.	01.01.2019-05.01.2019	Medical significance of <i>Protista. Subphylum Mastigophora</i> . Life cycles of parasites and clinical symptoms of diseases caused by <i>Giardia lamblia</i> , <i>Trichomonas vaginalis</i> .	2
15.	08.01.2019-12.01.2019	<i>Genus Trypanosoma</i> . Life cycles of parasites and clinical symptoms of diseases caused by <i>Trypanosoma cruzi</i> and <i>Trypanosoma gambiense</i> . VSGs in <i>Trypanosoma b. gambiense</i>	2
16.	15.01.2019-19.01.2019	Parasitic representatives of <i>Subphylum Sarcodina</i> . Life cycles of parasites and clinical symptoms of diseases caused by <i>Entamoeba spp.</i> , <i>Acanthamoeba spp.</i> , <i>Neogleria fawleri</i> .	2
17.	22.01.2019-26.01.2019	Parasitic representatives of <i>Phylum Apicomplexa. Class Sporozoa</i> . Life cycles of parasites and clinical symptoms of diseases caused by <i>Plasmodium species</i> . Malaria parasites.	2
18.	29.01.2019-02.02.2019	Life cycles of parasite and clinical symptoms of disease caused by <i>Toxoplasma gondii</i> .	2
19.	05.02.2019-09.02.2019	Parasitic representatives of <i>Phylum Ciliophora</i> . Life cycle of parasite and clinical symptoms of diseases caused by <i>Balantidium coli</i> .	2
20.	12.02.2019-16.02.2019	Pass unit III.	2

Head of the Department, professor

Khudaibergenova B.M.