

Plan of practical lessons
of microbiology, virology and immunology
for the 2nd year students of Faculty of Foreign Students
in autumn term of 2024-2025 academic year

Date	№	Topic
2-7 september	1	The main morphological groups of microorganisms. Morphology and ultrastructure of bacterial cell.
9-14 september	2	Research methods of bacterial morphology. Microscopical method of investigation.
16-21 september	3	Morphology of Spirochetes, Actinomycetes, Rickettsia, Chlamydia, and Mycoplasma.
23-28 september	4	Physiology of microorganisms. Bacteriological (cultural) method of investigation.
30 september-5 october	5	Biochemical properties of microorganisms. Identification methods of pure cultures for aerobic and anaerobic bacteria. Bacteriophages.
7-12 october	6	Genetics of microorganisms.
14-19 october	7	Microbiological bases of chemotherapy for the bacterial infections. Antiseptics.
21-26 october	8	Conclusive lesson on sections "Morphology, physiology and genetics of microorganisms".
28 october - 2 november	9	Ecology of microbes. Infection. Pathogenic microorganisms. Toxins of microbes. Biological (experimental) method of investigation.
4 -9 november	10	Immunocompetent organs and cells. Cytokines
11-16 november	11	Investigation methods of nonspecific resistance system of macroorganism. Antigens.
11-16 november	12	B-lymphocytes. Antibody-mediated (humoral) immune response.
18-23 november	13	T-lymphocytes. Cell-mediated immune response. Immunological diagnostic methods of infectious diseases.
25-30 november	14	Serological reactions with complement participation. Serological reactions with use of labeled components
2 - 7 december	15	Allergy. Diagnostic methods of allergic diseases. Immunoprophylaxis and immunotherapy of infectious diseases.
9-14 december	16	The foundations of clinical immunology. Immunodeficiencies. Autoimmune diseases. Graft-specific and antitumoral immunity.
16-21 december	17	Conclusive lesson on sections "General infectology. Theoretical and applied medical immunology".
23-28 december	18	Gram-positive cocci. Microbiological diagnostics of diseases caused by staphylo- and streptococci. Gram-negative cocci. Microbiological diagnostics of diseases caused by Neisseria.

Head of Department

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