Plan of practical lessons
of microbiology, virology and immunology
for the 2rd year students of Faculty of Foreign Students
in autumn term of 2026-2027 academic year

Date	№	Topic
1-5 september	1	The main morphological groups of microorganisms. Morphology and ultractructure of bacterial cell.
7-12 september	2	Research methods of bacterial morphology. Microscopical method of investigation.
14-19 september	3	Morphology of Spirochetes, Actinomycetes, Rickettsia, Chlamydia, and Mycoplasma.
21-26 september	4	Physiology of microorganisms. Bacteriological (cultural) method of investigation.
28 september-3 october	5	Biochemical properties of microorganisms. Identification methods of pure cultures for aerobic and anaerobic bacteria. Bacteriophages.
5-10 october	6	Genetics of microorganisms.
12-17 october	7	Microbiological bases of chemotherapy for the bacterial infections. Antiseptics.
19-24 october	**8**	**Conclusive lesson on sections "Morphology, physiology and genetics of microorganisms".**
26-31 october	9	Ecology of microbes. Infection. Pathogenic microorganisms. Toxins of microbes. Biological (experimental) method of investigation.
2 -7 november	10	Immunocompetent organs and cells. Cytokines
2 -7 november	11	Investigation methods of nonspecific resistance system of macroorganism. Antigens.
9-14 november	12	B-lymphocytes. Antibody-mediated (humoral) immune response.
16-21 november	13	T-lymphocytes. Cell-mediated immune response. Immunological diagnostic methods of infectious diseases.
23-28 november	14	Serological reactions with complement participation. Serological reactions with use of labeled components
30 november - 5 december	15	Allergy. Diagnostic methods of allergic diseases. Immunoprophylaxis and imunotherapy of infectious diseases.
7-12 december	16	The foundations of clinical immunology. Immunodeficiencies. Autoimmune diseases. Graft-specific and antitumoral immunity.
14-19 december	**17**	**Conclusive lesson on sections "General infectology. Theoretical and applied medical immunology".**
21-26 december	18	Gram-positive cocci. Microbiological diagnostics of diseases caused by staphylo- and streptococci. Gram-negative cocci. Microbiological diagnostics of diseases caused by Neisseria.

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