

COURSE DESCRIPTOR

| № | Topic | Total, hours | Lectures, hours | Workshops (seminars), hours | Labs, hours | Self-study of the material, hours | Individual tasks, hours |
|--|--|--------------|-----------------|-----------------------------|-------------|-----------------------------------|-------------------------|
| full-time course form of study | | | | | | | |
| Module 1. Morphology and physiology of microorganisms. Genetics of microorganisms. | | | | | | | |
| 1 | General microbiology. Bacterial physiology. | 14 | 2 | 10 | 0 | 2 | 0 |
| 2 | Bacteriophages. Bacterial genetics. Molecular genetic methods for diagnosing infectious diseases. | 4 | 0 | 2 | 0 | 2 | 0 |
| 3 | Basics of disinfection and sterilization in medicine. Biorisk management in the laboratory. Antibiotics and antibiotic resistance. Antibacterial therapy of infectious proces | 10 | 2 | 6 | 0 | 2 | 0 |
| Module 2. The microflora of the human body. The doctrine of infection. Immunology. | | | | | | | |
| 1 | Microbial ecology of the human body. Dysbacteriosis. The doctrine of infection. | 8 | 2 | 4 | 0 | 2 | 0 |
| 2 | The doctrine of immunity. Immune reactions. Fundamentals of immunoprophylaxis. | 26 | 2 | 22 | 0 | 2 | 0 |
| Module 3. Special microbiology. | | | | | | | |
| 1 | Microbiology of acute intestinal bacterial infections and food intoxication. | 18 | 2 | 14 | 0 | 2 | 0 |
| 2 | Microbiology of coccal infections. | 10 | 2 | 6 | 0 | 2 | 0 |
| 3 | Microbiology of anaerobic infections. | 4 | 0 | 2 | 0 | 2 | 0 |
| 4 | Microbiology of respiratory bacterial infections. | 10 | 2 | 4 | 0 | 4 | 0 |
| 5 | Microbiology of zoonotic bacterial infections. | 6 | 0 | 4 | 0 | 2 | 0 |
| 6 | Microbiology of spirochetosis, rickettsiosis, chlamydia and mycoplasmosis. | 10 | 0 | 8 | 0 | 2 | 0 |
| 7 | Fundamentals of medical mycology. Microbiology of mycoses. | 8 | 0 | 4 | 0 | 4 | 0 |
| 8 | Pathogenic protozoa - pathogens of parasitic invasions. | 6 | 0 | 4 | 0 | 2 | 0 |
| Module 4. General and special virology. Clinical and sanitary microbiology. | | | | | | | |
| 1 | General virology. Morphology, ultrastructure of viruses. Principles of microbiological diagnosis of viral infections. Features of antiviral immunity. Pathogens of respiratory viral infections. | 17 | 2 | 10 | 0 | 5 | 0 |

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|---|--|--------------|-----------------|-----------------------------|-------------|-----------------------------------|-------------------------|
| 2 | Microbiology of enteroviruses infections. | 6 | 0 | 2 | 0 | 4 | 0 |
| 3 | Microbiology of viral hepatitis. | 9 | 2 | 4 | 0 | 3 | 0 |
| 4 | Retroviruses. HIV infection. AIDS-associated pathology. Oncogenic viruses. | 8 | 2 | 4 | 0 | 2 | 0 |
| 5 | Pathogens of natural-focal infections. | 7 | 0 | 4 | 0 | 3 | 0 |
| 6 | Microbiology of herpesviruses infections. | 7 | 0 | 4 | 0 | 3 | 0 |
| 7 | Poxviruses. Rhabdoviruses. Laboratory diagnosis of infections. | 4 | 0 | 2 | 0 | 2 | 0 |
| 8 | Oncogenic viruses. Pathogens of slow infections. Prion diseases. | 6 | 0 | 2 | 0 | 4 | 0 |
| 9 | Clinical and sanitary microbiology. | 12 | 0 | 8 | 0 | 4 | 0 |
| <i>Total (full-time course form of study)</i> | | <i>210</i> | <i>20</i> | <i>130</i> | <i>0</i> | <i>60</i> | <i>0</i> |