“APPROVED”

Acting Dean of

International Medical Faculty

\_\_\_\_\_\_\_\_\_\_\_\_ Muhin A.N.

«\_\_\_\_\_» \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2018 р.

**THE SCHEDULE**

**Practice exercises and lectures**

**on discipline "Microbiology, Virology, immunology"**

**for students 2 course ІІІ semester 2018-2019 school year with cyclic learning system**

**the international medical faculty, specialty 221 "Dentistry"**

**The duration of the cycle:** **5, 0 hours**

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| № | Practical exercise | Topic of lecture | Practical  classes’s  duration | Groups | Data | Teacher’s  name |
| 1. | Immersion microscopy. Morphology of bacteria. Cell structure of bacteria. Preparation of a bacterial culture smear. Simple staining methods.  Microscopic methods of diagnosis. | Subject and Tasks of Medical Microbiology. History of microbiology, Immunology, Virology. | 3,0 | 201-202 | 7.12.2018 | Banik N.S. |
| 2 | Influence of environmental factors on microorganisms. Sterilization.Disinfection. Antiseptic. Aseptic. Gram staining. Nutrient media. | The doctrine of the infection. Infectious process. | 3,0 | 201-202 | 10.12.2018 | Banik N.S. |
| 3 | Biochemical properties of bacteria.  The cultural properties of bacteria.  Isolation of pure bacterial culture (stage 1) Biochemical properties of bacteria. Isolation of pure bacterial culture (stage 2). | The doctrine of immunity. Nonspecific factors protecting the organism from microorganisms. Non-specific resistance of the oral cavity. General characteristics of immunity. Types and forms of immunity. Antigens Antibodies | 3,0 | 201-202 | 11.12.2018 | Banik N.S. |
| 4 | Biochemical properties of bacteria.  The cultural properties of bacteria.  Isolation of pure bacterial culture (stage 3). Chemotherapy. Antibiotics. Antagonism of microorganisms. | Immunity II. Cellular immunity. Cooperative interaction between immunocompetent cells, immune systems. Tolerance. Mechanisms of cytotoxicity / killing | 3,0 | 201-202 | 12.12.2018 | Banik N.S. |
| 5 | Infection. Biological method of diagnosing infectious diseases. | Serological reactions. Serological method of diagnosis. Evaluation of the immune statute | 3,0 | 201-202 | 13.12.2018 | Banik N.S. |
| 6 | The immune system. Serological method of diagnosis. Iimmune response (serological reactions). Agglutination reaction and its varieties.  Reaction of precipitation.  Immunity response: lysis, CFT (complement-fixation test) and others, toxin neutralization reaction with antitoxin | Allergy. Immunopathological reactions. Immunoprophylaxis and immunotherapy. Allergic reactions of oral cavity. | 3,0 | 201-202 | 14.12.2018 | Banik N.S. |
| 7 | Immunity. Determination of human immune status.  Allergy. Allergic method of diagnostics. Features of the manifestation of allergic reactions in dentistry. Immunoprophylaxis and Immunotherapy. Allergic method of diagnostic the infectiouns disease.  Nonspecific mechanisms for protecting the oral cavity | Microflora of the human body and its value. Microflora of the oral cavity and its meaning in development of diseases. Non-specific resistance of the oral cavity | 3,0 | 201-202 | 17.12.2018 | Banik N.S. |
| 8 | Shigella and vibrio  Microbiological diagnosis  of cholera and shigellosis | Pathogens colienteritis, typhoid fever, disease caused by Salmonella | 3,0 | 201-202 | 18.12.2018 | Banik N.S. |
| 9 | Pus-forming cocci. Lab diagnostic infections caused by Gram positive and Gram negative cocci. Staphylococcus aureus, streptococcus, meningococcus, gonococcus. | Causative agents of diphtheria and tuberculosis. | 3,0 | 201-202 | 19.12.2018 | Banik N.S. |
| 10 | Causative agents of diphtheria and tuberculosis. | Yersinia.  Causative agent of plague and tularemia. Lab diagnostic. Causative agents of brucellosis and anthrax. | 3,0 | 201-202 | 20.12.2018 | Banik N.S. |
| 11 | Yersinia.  Causative agent of plague and tularemia. Lab diagnostic. Causative agents of brucellosis and anthrax. | Spirochetes. Causative agent of Syphilis. Laboratory studies. | 3,0 | 201-202 | 21.12.2018 | Banik  N.S. |

Head of the Department of Microbiology,

Virology and immunology A. A. Slusarev