INTERNATIONAL SCHOOL OF MEDICINE

SYLLABUS

Program:	**Epidemiology**
Qualification of the graduate:	**General practitioner / Medical doctor**
Year:	**2022-2023**
Semester:	**9**
Course duration:	**18 weeks / 20 weeks**
Instructor/Assistant/Professor	**Name: Moldokanova R.K.**
Department:	**Public health**
Day and Time for consultation:	
Classroom:	
e-mail:	**roza.moldokanova@mail.ru**
Course Title:	**Epidemiology**
Must/Elective:	**Must**
Credit/Hours:	**3**
Course Description:	**The discipline epidemiology refers to the variable cycle of the academic plan, is a variable discipline**
Course Objectives:	**The purpose of teaching the discipline "Epidemiology" is to acquire theoretical and practical knowledge on the epidemiology of infectious and non-infectious diseases, identify patterns of occurrence, spread and termination of diseases, organize and conduct anti-epidemic measures aimed at preventing, reducing and eliminating diseases of the population.**
Prerequisites:	**Latin language and basic terminology, anatomy, physiology, general pathology, virology, immunology, microbiology, ecology and environmental health, biostatistics, bioethics.**
Post-requisites:	**Public health and health care, Information activities for the protection and promotion of health.**
Learning Outcomes: (expected knowledge & ability at the end)	**The results of mastering the discipline are formed using the active verbs of Bloom's Taxonomy:** **After mastering this discipline, the student:** **Will know the general patterns of the emergence and spread of infectious, parasitic and non-infectious diseases among the population and in military teams. Causes and conditions, the mechanism of development and manifestation of the epidemic process among the population in certain nosological forms;** **Will understand the methodological and organizational foundations of epidemiological**

	surveillance of individual groups and nosological forms of infectious and parasitic diseases; **Will be able to use the main types of epidemiological research to analyze population health indicators;** **Will be able to carry out the necessary anti-epidemic and preventive measures in the foci of certain groups and nosological forms of infectious and parasitic diseases;** **Will be able to analyze the incidence using statistical data to study the epidemiology of infectious diseases for a number of characteristics for a year or several years;** **Will be able to synthesize their knowledge to develop a work plan during various epidemiological situations;** **Will be able to evaluate the potential and actual effectiveness of individual anti-epidemic measures and their complex.**
Basic references:	
Supplementary Textbook and Materials:	**1. Ray M. Merrill "Introduction to Epidemiology" -Jones & Bartlett Learning, 2016.** **2. J. E. Park " Community medicine"- Karachi, Pakistan, 2015** **3. K. Park "Preventive and social medicine"- Mumbai, India, 2016.** **4. Ann Aschengrau, ScD, George R. Seage, ScD "Essentials of Epidemiology in Public Health", Jones & Bartlett Learning, 2020.**

COURSE POLICY AND EVALUATION CRITERIA:

Type of control (current, milestone, final)	Control form	Assessment of learning outcomes
Attendance	For one missed lesson minus 2 points	20 points
Current control	Oral surveey, written work	20 points
IWS+IWW	Perfoming assignments, work with literature	20 points
Milestone control (modul submission)	Testing, control tasks	40 points
Final control (differential test)	Conversation, examination (test.edu.kg)	100 points

Scale of correspondence between grades and scores on the final control (exam)	
Score	**Grade**
90-100	«excellent»
76-89	«good»
60-75	«satisfactory»
0-59	«unsatisfactory»

Course Plan	**Lecture / Practice**	**Subject**
1 week		**Theoretical foundations of epidemiology**
2 week		**Methods of epidemiological research**
3 week		**Epidemic process**
4 week		**Epidemiological diagnostics**
5 week		**Disease prevalence rates**
Modul 1 (Date)		
6 week		**Average values. Assessment of the reliability of indicators.**
7 week		**Organization of preventive and anti-epidemic measures**
8 week		**Organization of anti-epidemiological service**
9 week		**Epidemiological surveillance**
10 week		**Outbreak investigation basics**
Modul 2 (Date)		
11 week		**Epidemiology of infectious and parasitic diseases**
12 week		**Immunoprophylaxis of infectious diseases**
13 week		**Infection control in medical organizations**
14 week		**Organization of anti-epidemic support in emergency (extreme) situations**
Modul 3 (Date)		
15 week		**Epidemiology of noncommunicable diseases**
16 week		**Prevention of noncommunicable diseases**
17 week		**Clinical epidemiology. Evidence-based medicine.**
18 week		**Information technology in epidemiology**