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Khanty-Mansiysk Autonomous Okrug-Ugra  
 "Surgut State University"

Approved by  
 Deputy Rector for Academic Affairs

\_\_\_\_\_ E.V. Konovalova

"11" June 2026, Record No.5

## Epidemiology

### Syllabus

Department **Multidisciplinary clinical training**

Curriculum s310501-ЛечДелоИн-26-6.xml  
 Specialty 31.05.01 General Medicine

Qualification **General Practitioner**

Form of education **Full-time**

Total (in credits) **3**

Total academic hours 108

Control:  
 Test, C term  
 Credit, C term

including:  
 Contact 72  
 Self-study 36

### Course outline in terms

Academic year (Term)	C		Total	
	Cur	Syl	Cur	Syl
Weeks				
Types of classes	Cur	Syl	Cur	Syl
Lectures	16	16	16	16
Practical	56	56	56	56
Contact	72	72	72	72
Self-study	36	36	36	36
Control hours	-	-	-	-
Total	108	108	108	108

The Syllabus is compiled by:

*Doctor of Medicine, Professor Kuyarov A.V.*

The Syllabus

**Epidemiology**

Developed in accordance with Federal State Educational Standard:

Federal State Educational Standard of higher education in the specialty 31.05.01 General medicine (Order of the Ministry of Education and Science of the Russian Federation on August, 12, 2020 r. №988)

Based on the Curriculum:

31.05.01 GENERAL MEDICINE

Specialization: General Medicine

Approved by the Academic Council of Surgut State University, “11” June 2026, Record No.5

The Syllabus was approved by the department

**Multidisciplinary clinical training**

Head of Department, Doctor of Medicine, Professor Klimova N.V.

## 1. COURSE OBJECTIVES

1.1	<p>The <b>aim</b> of the course of Epidemiology is to study the most important theoretical and practical problems of epidemiology as a scientific discipline.</p> <p>The <b>objectives</b> of mastering the discipline "Epidemiology" are to form professional competencies in the following fields of knowledge:</p> <ol style="list-style-type: none"> <li>1) general epidemiology and specific branches of epidemiology;</li> <li>2) the principles of organizing anti-epidemic work in a locality health centre;</li> <li>3) immunoprophylaxis;</li> <li>4) taking primary preventive and anti-epidemic measures in epidemic foci.</li> </ol>
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## 2. COURSE OVERVIEW

Course code (in curriculum)	<b>Б1.О.04.20</b>
2.1	<p><b>Assumed background:</b></p> <p>Infectious Disease Microbiology, Virology Biology Faculty therapy Faculty surgery Phthisiatry Paediatrics, Childhood Infections</p>
2.2	<p><b>Post requisite courses and practice:</b></p> <p>Outpatient Therapy Emergency Medicine</p>

## 3. COMPETENCES UPON COMPLETION OF THE COURSE (MODULE)

UC-8.1	Identifies harmful and dangerous factors of the environment
UC-8.2	Selects means of protection against the effects of harmful and dangerous factors in the framework of the activity
UC-8.3	Provides safe conditions for life and work
UC-8.4	Explains the rules of behavior in case of emergencies of natural and man-made origin
UC-8.5	Provides first aid
GPC-2.1	Knows the legislation of the Russian Federation on the rights and obligations of citizens in the field of environmental protection (Constitution of the Russian Federation, No. 7-Φ3 as amended in 2020) in the prevention of infectious and non-infectious diseases, the formation of a healthy lifestyle, sanitary and hygienic education of the population
GPC-6.3	Ready to make professional decisions in emergency situations, epidemics and in outbreaks of mass destruction, to provide medical assistance in emergency situations, including participation in medical evacuation, anti-epidemic measures, protection of the population in the outbreaks of especially dangerous infections, in case of deterioration of the radiation situation, natural disasters and other emergencies
GPC-10.2	Able to assess the quality of medical information obtained from open sources (portals and orders of the Ministry of Health of the Russian Federation; orders of regional health authorities; information, bibliographic resources, biomedical information and communication database), taking into account evidence and information security requirements
PC-7.1	Conducts medical examinations among the population, taking into account age, health status, profession, prescribes and controls preventive measures for patients, taking into account risk factors in accordance with the current procedures for the provision of medical care, Clinical guidelines (treatment protocols) on the provision of medical care and standards of medical care
PC-7.2	Organizes and controls the immunization against infectious diseases in the adult population in accordance with the current procedures for the provision of medical care, Clinical guidelines (treatment protocols) on the provision of medical care, taking into account the standards of medical care and determines medical indications for the introduction of restrictive measures (quarantine) and indications for referral to a specialist doctor in the event of infectious (parasitic) diseases
PC-8.1	Demonstrates the ability and readiness to organize planning and reporting of medical personnel, to analyze the performance indicators of a medical institution and its departments, present the analysis results
PC-8.2	Keeps medical records, including the electronic format
PC-8.3	Provides internal quality control and safety of medical activities within the scope of job duties, control of the performance of duties by middle and junior medical personnel and other medical workers of their job duties
GPC-11.1	Analyzes the information received, prepares and applies research and production, design, organizational, managerial and regulatory documentation in the health care system
GPC-11.4	Applies social and hygienic methods of medical and statistical analysis of information on health indicators of the population
<b>By the end of the course students must:</b>	

<b>3.1</b>	<b>know:</b>
	<ul style="list-style-type: none"> <li>- diseases associated with the adverse effects of climatic and social factors; socially significant diseases; history of disease studies.</li> <li>- clinical picture of especially dangerous infections; anti-epidemic measures in case of especially dangerous diseases.</li> <li>- clinical picture of major infectious and parasitic diseases; laboratory and instrumental diagnostics of major infectious and parasitic diseases; rules on keeping outpatient and inpatient medical records.</li> <li>- basic hygiene and health-promoting principles that contribute to the health preservation of the population; methods of health education.</li> <li>- main methods for assessing, natural, medical and social factors in the development of diseases; - basic deontological rules and regulations of doctor–patient and collegial relationships.</li> <li>- principles of a systematic approach to the analysis of medical information, sources of evidence-based medicine to apply in their practice.</li> <li>- the specifics of studying medical literature and the information about the achievements of medical science and technology.</li> </ul>

<b>3.2</b>	<b>be able to:</b>
	<ul style="list-style-type: none"> <li>- analyze socially significant processes and causes of socially significant diseases; identify these diseases and find measures to reduce them.</li> <li>- carry out anti-epidemic measures and protect the population in the outbreaks of especially dangerous infections.</li> <li>- analyze complaints, medical history, laboratory and instrumental data obtained from patients to determine whether they have an infectious or parasitic disease.</li> <li>- to apply preventive activities in health care; discuss healthy lifestyle principles with the patients; explain to the patients how to eliminate modifiable disease risk factors</li> <li>- carry out measures for prevention of infectious, parasitic and non-communicable diseases.</li> <li>- apply deontological principles of doctor–patient and collegial relationships</li> <li>- analyze the information obtained from various medical sources, apply theoretical knowledge in real conditions for constant professional development - conduct scientific research</li> </ul>

<b>3.3</b>	<b>have skills of:</b>
	<ul style="list-style-type: none"> <li>- taking practical measures to reduce social diseases; reducing the influence of social factors provoking the development of infectious diseases.</li> <li>- working with anti-plague protective clothing of various types.</li> <li>- taking measures to improve patients' health and to reduce the influence of dangerous disease risk factors within patient groups.</li> <li>- educating people about health issues and disease prevention.</li> <li>- applying deontological principles of doctor-patient and collegial relationships, working with adult and adolescent patients. - evaluating and using obtained medical data, comprehensively applying the system of evidence-based medicine in their professional activities.</li> <li>- conducting scientific research for the benefit of their patients, applying scientific methods at work, doing elementary statistical calculations.</li> </ul>

#### 4. STRUCTURE AND CONTENTS OF THE COURSE (MODULE)

Class Code	Topics /Class type	Term / Academic year	Academic hours	Competences	Literature	Interactive	Notes
1.1	Epidemic theory /lecture	12 (C )	2	UC-8.1 UC-8.2 UC-8.3 UC-8.4 UC-8.5 GPC-2.1 GPC-6.3 GPC-10.2 PC-7.1 PC-7.2 PC-8.1 PC-8.2 PC-8.3 GPC-11.1 GPC-11.4	1.1 2.1		
1.2	Epidemic theory /Practice/	12 (C )	6	UC-8.1 UC-8.2 UC-8.3 UC-8.4 UC-8.5 GPC-2.1 GPC-6.3 GPC-10.2 PC-7.1 PC-7.2 PC-8.1 PC-8.2 PC-8.3 GPC-11.1 GPC-11.4	1.1 2.1		
1.3	Epidemic theory / selfstudy	12 (C )	4	UC-8.1 UC -8.2 UC-8.3 UC-8.4	1.1 2.1	0	

				UC-8.5 GPC-2.1 GPC-6.3 GPC-10.2 PC-7.1 PC-7.2 PC-8.1 PC-8.2 PC-8.3 GPC-11.1 GPC-11.4			
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2.1	Anti-epidemic measures / lecture	12 (C)	2	UC-8.1 UC-8.2 UC-8.3 UC-8.4 UC-8.5 GPC-2.1 GPC-6.3 GPC-10.2 PC-7.1 PC-7.2 PC-8.1 PC-8.2 PC-8.3 GPC-11.1 GPC-11.4	1.1 2.1		
2.2	Anti-epidemic measures /Practice/	12 (C)	6	UC-8.1 UC -8.2 UC-8.3 UC-8.4 UC-8.5 GPC-2.1 GPC-6.3 GPC-10.2 PC-7.1 PC-7.2 PC-8.1 PC-8.2 PC-8.3 GPC-11.1 GPC-11.4	1.1 2.1		
2.3	Anti-epidemic measures / self-study	12 (C)	4	UC-8.1 UC -8.2 UC-8.3 UC-8.4 UC-8.5 GPC-2.1 GPC-6.3 GPC-10.2 PC-7.1 PC-7.2 PC-8.1 PC-8.2 PC-8.3 GPC-11.1 GPC-11.4	1.1 2.1		
3.1	The state and prospects of immunoprophylaxis of infectious diseases /Practice/	12 (C)	8	UC-8.1 UC-8.2 UC-8.3 UC-8.4 UC-8.5 GPC-2.1 GPC-6.3 GPC-10.2 PC-7.1 PC-7.2 PC-8.1 PC-8.2 PC-8.3 GPC-11.1 GPC-11.4	1.1 2.1		
3.2	The state and prospects of immunoprophylaxis of infectious diseases / selfstudy	12 (C)	4	UC-8.1 UC-8.2 UC-8.3 UC-8.4 UC-8.5 GPC-2.1 GPC-6.3 GPC-10.2 PC-7.1 PC-7.2 PC-8.1 PC-8.2 PC-8.3 GPC-11.1 GPC-11.4	1.1 2.1		
4.1	Epidemiology and prevention of respiratory tract infections. /lecture	12 (C)	2	UC-8.1 UC -8.2 UC-8.3 UC-8.4 UC-8.5 GPC-2.1 GPC-6.3 GPC-10.2 PC-7.1 PC-7.2 PC-8.1 PC-8.2 PC-8.3 GPC-11.1 GPC-11.4	1.1 2.1		
4.2	Epidemiology and prevention of respiratory tract infections /Practice/	12 (C)	6	UC-8.1 UC -8.2 UC-8.3 UC-8.4 UC-8.5 GPC-2.1 GPC-6.3 GPC-10.2 PC-7.1 PC-7.2 PC-8.1 PC-8.2 PC-8.3 GPC-11.1 GPC-11.4	1.1 2.1		

4.3	Epidemiology and prevention of respiratory tract infections / self-study	12 (C)	4	UC-8.1 UC-8.2 UC-8.3 UC-8.4 UC-8.5 GPC-2.1 GPC-6.3 GPC-10.2 PC-7.1 PC-7.2 PC-8.1 PC-8.2 PC-8.3 GPC-11.1 GPC-11.4	1.1 2.1		
5.1.	Epidemiology and prevention of intestinal infections / lecture	12 (C)	2	UC-8.1 UC-8.2 UC-8.3 UC-8.4 UC-8.5 GPC-2.1 GPC-6.3 GPC-10.2 PC-7.1 PC-7.2 PC-8.1 PC-8.2 PC-8.3 GPC-11.1 GPC-11.4	1.1 2.1		
5.2.	Epidemiology and prevention of intestinal infections /Practice/	12 (C)	6	UC-8.1 UC-8.2 UC-8.3 UC-8.4 UC-8.5 GPC-2.1 GPC-6.3 GPC-10.2 PC-7.1 PC-7.2 PC-8.1 PC-8.2 PC-8.3 GPC-11.1 GPC-11.4	1.1 2.1		
5.3	Epidemiology and prevention of intestinal infections / selfstudy	12 (C)	4	UC-8.1 UC-8.2 UC-8.3 UC-8.4 UC-8.5 GPC-2.1 GPC-6.3 GPC-10.2 PC-7.1 PC-7.2 PC-8.1 PC-8.2 PC-8.3 GPC-11.1 GPC-11.4	1.1 2.1		
6.1.	Epidemiology and prevention of anaerobic and highly dangerous infections / lecture	12 (C)	2	UC-8.1 UC-8.2 UC-8.3 UC-8.4 UC-8.5 GPC-2.1 GPC-6.3 GPC-10.2 PC-7.1 PC-7.2 PC-8.1 PC-8.2 PC-8.3 GPC-11.1 GPC-11.4	1.1 2.1		
6.2	Epidemiology and prevention of anaerobic and highly dangerous infections /Practice/	12 (C)	6	UC-8.1 UC-8.2 UC-8.3 UC-8.4 UC-8.5 GPC-2.1 GPC-6.3 GPC-10.2 PC-7.1 PC-7.2 PC-8.1 PC-8.2 PC-8.3 GPC-11.1 GPC-11.4	1.1 2.1		
6.3	Epidemiology and prevention of anaerobic and highly dangerous infections / self-study	12 (C)	4	UC-8.1 UC -8.2 UC-8.3 UC-8.4 UC-8.5 GPC-2.1 GPC-6.3 GPC-10.2 PC-7.1 PC-7.2 PC-8.1 PC-8.2 PC-8.3 GPC-11.1 GPC-11.4	1.1 2.1		
7.1	Epidemiology and prevention of infections	12 (C)	2	UC-8.1 UC-8.2 UC-8.3 UC-8.4	1.1 2.1		

	with the transmissible mechanism of transmission of the pathogen / lecture			UC-8.5 GPC-2.1 GPC-6.3 GPC-10.2 PC-7.1 PC-7.2 PC-8.1 PC-8.2 PC-8.3 GPC-11.1 GPC-11.4			
7.2	Epidemiology and prevention of infections with transmissible mechanism of pathogen transfer /Practice/	12 (C)	6	UC-8.1 UC-8.2 UC-8.3 UC-8.4 UC-8.5 GPC-2.1 GPC-6.3 GPC-10.2 PC-7.1 PC-7.2 PC-8.1 PC-8.2 PC-8.3 GPC-11.1 GPC-11.4	1.1 2.1		
7.3	Epidemiology and prevention of infections with transmissible mechanism of pathogen transfer / self-study	12 (C)	4	UC-8.1 UC-8.2 UC-8.3 UC-8.4 UC-8.5 GPC-2.1 GPC-6.3 GPC-10.2 PC-7.1 PC-7.2 PC-8.1 PC-8.2 PC-8.3 GPC-11.1 GPC-11.4	1.1 2.1		
8.1	Epidemiology and prevention of viral hepatitis / lecture	12 (C)	2	UC-8.1 UC-8.2 UC-8.3 UC-8.4 UC-8.5 GPC-2.1 GPC-6.3 GPC-10.2 PC-7.1 PC-7.2 PC-8.1 PC-8.2 PC-8.3 GPC-11.1 GPC-11.4	1.1 2.1		
8.2	Epidemiology and prevention of viral hepatitis /Practice/	12 (C)	6	UC-8.1 UC-8.2 UC-8.3 UC-8.4 UC-8.5 GPC-2.1 GPC-6.3 GPC-10.2 PC-7.1 PC-7.2 PC-8.1 PC-8.2 PC-8.3 GPC-11.1 GPC-11.4	1.1 2.1		
8.3	Epidemiology and prevention of viral hepatitis / self-study	12 (C)	4	UC-8.1 UC -8.2 UC-8.3 UC-8.4 UC-8.5 GPC-2.1 GPC-6.3 GPC-10.2 PC-7.1 PC-7.2 PC-8.1 PC-8.2 PC-8.3 GPC-11.1 GPC-11.4	1.1 2.1		
9.1	Epidemiology and prevention of nosocomial infections / lecture	12 (C)	2	UC-8.1 UC-8.2 UC-8.3 UC-8.4 UC-8.5 GPC-2.1 GPC-6.3 GPC-10.2 PC-7.1 PC-7.2 PC-8.1 PC-8.2 PC-8.3 GPC-11.1 GPC-11.4	1.1 2.1		
9.2	Epidemiology and prevention of nosocomial infections	12 (C)	6	UC-8.1 UC-8.2 UC-8.3 UC-8.4	1.1 2.1		

	/Practice/			UC-8.5 GPC-2.1 GPC-6.3 GPC-10.2 PC-7.1 PC-7.2 PC-8.1 PC-8.2 PC-8.3 GPC-11.1 GPC-11.4			
9.3	Epidemiology and prevention of nosocomial infections / self-study	12 (C)	4	UC-8.1 UC-8.2 UC-8.3 UC-8.4 UC-8.5 GPC-2.1 GPC-6.3 GPC-10.2 PC-7.1 PC-7.2 PC-8.1 PC-8.2 PC-8.3 GPC-11.1 GPC-11.4	1.1 2.1		
10	Control work	12 (C)		UC-8.1 UC-8.2 UC-8.3 UC-8.4 UC-8.5 GPC-2.1 GPC-6.3 GPC-10.2 PC-7.1 PC-7.2 PC-8.1 PC-8.2 PC-8.3 GPC-11.1 GPC-11.4	1.1 2.1		Control work
11	Credit	12 (C)		UC-8.1 UC-8.2 UC-8.3 UC-8.4 UC-8.5 GPC-2.1 GPC-6.3 GPC-10.2 PC-7.1 PC-7.2 PC-8.1 PC-8.2 PC-8.3 GPC-11.1 GPC-11.4	1.1 2.1		Oral quiz

## 5. ASSESSMENT TOOLS

### 5.1. Tests and tasks

Supplement

### 5.2. ASSESSMENT TOOLS

Supplement

## 6. COURSE (MODULE) RESOURCES

### 6.1. Recommended Literature

#### 6.1.1. Core

	Authors	Title	Publish., year	Quantity
1.1	Yushchuk N.D., Vengerov Yu.Ya.	Infectious diseases: textbook	M.: GEOTARMedia, 2020, electronic resource	1

#### 6.1.2. Supplementary

	Authors	Title	Publish., year	Quantity
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2.1	Levchuk I. P., Kostyuchenko M. V., Nazarov A. P.	First Aid in Case of Accidents and Emergency Situations: course book [Electronic resource]	M.: GEOTARMedia, 2017, electronic resource	1
<b>6.1.3. Methodical development</b>				
	Authors	Title	Publish., year	Quantity
3.1	Ilyinskikh E. N., Semenova A. V., Boginskaya P. V., Lukashova L. V.	Infectious diseases of digestive and respiratory tracts. Collection of case studies: tutorial	electronic resource	1
<b>6.2. Internet resources</b>				
3.1	1.http: //www.swetswise.com/public/login.do 2.http: //dc.rsl.ru/dcsrchr_u_jo.htm 3.The portal of Russian scientific journals (RSL) http://www.scsml.rssi.ru 4. Central Scientific Medical Library (TsNMB) http://medlib.tomsk.ru 5. Scientific Medical Library of the Siberian State Medical University FreeMedicalJournals 6. Child infections. Journal / detinf@inbox.ru 7. Russian Medical Journal / http://www.medlit.ru/medrus/rosmed.htm 8. Clinical medicine http://www.medlit.ru/medrus/klm.htm 9.Infections and antimicrobial therapy. Journal /www.consilium - medicum.com 10. Infectious diseases. Journal / red@ifmch.ru 11. Epidemiology and Infectious Diseases / http://www.medlit.ru/medrus/eib.htm 12. Epidemiology and vaccination. Journal / epidemvac@borges.ru 13. Immunopathology, allergology, infectology / http://www.immunopathology.com/ 14. Questions of virology / http://www.medlit.ru/medrus/vopvir.htm 15. Clinical microbiology and antimicrobial chemotherapy http://www.antibiotic.ru/cmacc/ 16. The attending physician. Magazine / www.lvrach.ru 17. Clinical laboratory diagnostics / http://www.medlit.ru/medrus/klmlab.htm 18. Disinfection case / http://www.medi.ru/doc/61.htm 19. Therapeutic archive / http://www.medlit.ru/medrus/terarh.htm 20.Medicum / http://www.consilium-medicum.com/ 21.Terra Medica Nova / http://www.medi.ru/doc/87.htm 22. Health of the Russian Federation / http://www.medlit.ru/medrus/zdrav.htm 23. Electronic library of SurSU. http://surgut.openet.ru			
<b>6.3. Software</b>				
6.3.1	Operational system Microsoft, applied programs pack Microsoft Office			
<b>6.4. Information Referral systems</b>				
6.4.1	Guarantor http://www.garant.ru			
6.4.2	Consultant http://www.consultant.ru			

## 7. MATERIAL AND TECHNICAL SUPPORT OF DISCIPLINE (MODULE)

A classroom for conducting lecture-type classes at SurSU. The lecture hall is equipped with a multimedia projector, a screen, a laptop, a stationary chalkboard, standard educational furniture: tables, chairs.

Practical classes, individual consultations, ongoing monitoring and intermediate certification are conducted in the classroom at the Surgut District Clinical Hospital. The classroom is equipped with: a laptop, a digital SLR camera, personal computers, a stethophonendoscope, a mechanical blood pressure measuring device. Visual aids and technical training tools: tables and microtables. A set of presentation materials. Videos. Test questions and tasks by topic. It is equipped with standard educational furniture: tables, chairs.