Информация о владельце:
ΦИΟ: Ястребов Олег Алекс Prederal State Autor omous Educational Institution of Higher Education
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Уникальный программный ключ:
ca953a0120d891083f939673078ef1a989dae18a RUDN University

Institute of Medicine

educational division (faculty/institute/academy) as higher education programme developer

COURSE SYLLABUS

Epidemiology course title

Recommended by the Didactic Council for the Education Field of:

31.05.03 Dentistry field of studies / speciality code and title

The course instruction is implemented within the professional education programme of higher education:

Dentistry higher education programme profile/specialisation title

1. COURSE GOAL(s)

The goal of the course "Epidemiology" is to equip students with the knowledge of the theoretical and practical skills of students to prevent infectious diseases in dental medical settings, among various population categories at individual and group and levels, as well as in emergency situations.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) "Epidemiology is aimed at the development of the following competences /competences in part: GC-8.3, GC-8.4; GPC-7.1; PC-4.1.

Competence code	Competence descriptor	Competence formation indicators (within this course)
GC-8.	Able to create and maintain safe living conditions in everyday life and in professional activity, including in the event of emergencies and military conflicts	GC-8.3. Resolves issues related to safety violations and participates in emergency prevention activities in the workplace.
		GC-8.4. Observes and explains the rules of conduct in the event of emergencies of natural and man- made origin, provides first aid, participates in recovery activities.
GPC-7.	Able to organize work and make professional decisions in case of emergency, in emergencies, epidemics and in outbreaks of mass destruction	GPC-7.1. Knows: methodology for collecting complaints and anamnesis from patients (their legal representatives); method of physical examination of patients (examination, palpation, percussion, auscultation); principles and methods of providing medical care to patients in emergency conditions, in emergencies, epidemics and in outbreaks of mass destruction in accordance with the procedures for the provision of medical care, clinical guidelines, taking into account the standards of medical care; clinical signs of major emergencies; principles of medical evacuation in emergencies, epidemics and in outbreaks of mass destruction; principles of work in the outbreaks of mass destruction
PC-4	Capable of carrying out and monitoring the effectiveness of sanitary and anti-epidemic and other preventive measures to protect public health	PC-4.1. Conduct preventive counseling, examinations of the population and take measures to reduce morbidity of infectious diseases, including disability as a consequence.

Table 2.1. List of competences that students acquire through the course study

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course refers to the <u>core</u>/variable/elective* component of (B1) block of the higher educational programme curriculum.

* - Underline whatever applicable.

Within the higher education programme students also master other (modules) and / or internships that contribute to the achievement of the expected learning outcomes as results of the course study.

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
GC-8.	Able to create and maintain safe living conditions in everyday life and in professional activity, including in the event of emergencies and military conflicts	Biology, Immunology	Internal medicine
GPC-7	Able to organize work and make professional decisions in case of emergency, in emergencies, epidemics and in outbreaks of mass destruction	Hygiene	Clinical pharmacology, Head and neck diseases
PC-4	Capable of carrying out and monitoring the effectiveness of sanitary and anti- epidemic and other	Hygiene	Clinical pharmacology Head and neck diseases

Table 3.1. The list of the higher education programme components/disciplines that contribute to the achievement of the expected learning outcomes as the course study results

* To be filled in according to the competence matrix of the higher education programme.

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

preventive measures to protect public health

The total workload of the course "Epidemiology" is 2 credits (72 academic hours).

Table 4.1. Types of academic activities during the periods of higher education programme mastering (*full-time training*)*

Type of academic activities		Total academic		ers/training odules
		hours	8	
Contact academic hours		48	48	
including:				
Lectures (LC)		2	2	
Seminars (workshops/tutorials) (S)		46	46	
Lab work (LW)		-	-	
Self-studies		18	18	
Evaluation and assessment (exam/passing/failing		6	6	
grade)				
Course workload	academic hours		72	
	credits		2	

* To be filled in regarding the higher education programme correspondence training mode.

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types Academic				
Course module title	Course module contents (topics)	activities types		
Module 1. General epidemiology. Epidemiological method and	1.1 Short history of the epidemiology development. Epidemiological method (analysis).	Lc		
evidence-based medicine. Epidemiological studies.	1.2 Establishing an epidemiological diagnosis. The kinds of epidemiological research.	Lc		
Module 2. Epidemic process. Epidemiological surveillance.	2.1 L.V. Gromashevsky's role in the study about the epidemic process – three interconnecting elements: a source of infection, a mechanism of transmission and a susceptible organism.	Lc		
	2.2 Indicators of the epidemic process. Antiepidemic measures. The basis of preventive measures organization. Levels of prevention. The epidemiological surveillance as a subsystem of the social-hygienic monitoring (SHM).	S		
Module3.Sapronoticand	3.1 Highly contagious disease	S		
highly contagious infections.	3.2 Sources, reservoirs of highly contagious diseases	S		
Module 4. Disinfection, sterilization.	4.1 The definition of disinfection. Types of disinfection: prophylactic and nidal (current and final).	S		
	4.2 Control of respiratory infections, enteric infections and highly contagious diseasess.	S		
	4.3 Sterilization cleaning of medical instrument	S		
	4.4 Insect control	S		
	4.5 Rodent control	S		
Module 5. Immunoprophylaxis	5.1 Definition of immunoprophylaxis. Theoretical basis of immunoprevention.	S		

Table 5.1. Course contents and academic activities types

of infectious diseases.	5.2 The schedules for immunoprophylaxis . Active and passive immunoprophylaxis. Post-exposure immunoprophylaxis.	S
Module 6. Infectious disease epidemiology.	6.1 The content of this section is defined by the actual epidemic situation and calendar plan of study course of infectious diseases.	S
Epidemiology of socially significant infections.	6.2 Epidemiological characteristics of deadly infectious diseases. Organization of anti epidemic and preventive measures.	S
Module 7. Epidemiology and prophylaxis of nosocomial	7.1 Definition of nosocomial infections. Epidemiological, economic significance of hospital infections.	S
infections.	 7.2 Common pathogens of nosocomial infections and their sources. Prevention of nosocomial diseases in medical staff. Post-exposure prevention of HIV, hepatitis viruses (B, C, D). 7.3 Exogenous and endogenous infections 	S
Module 8.	8.1 Definition of the "emergency situation".	S
Epidemiology of emergency situations.	8.2 Classification of catastrophes. Basic principles of medical aid and epidemic control organization in the area affected by an emergency.	S

* - to be filled in only for <u>full</u>-time training: *LC* - *lectures; LW* - *lab work; S* - *seminars.*

6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
Lecture	Auditorium for lectures equipped with a	Academic Activity Type – Lecture/Seminars/Computer
	set of specialized furniture; board (screen) and technical means of	Lab/Self-studies Classroom
	multimedia presentations.	equipped with a set of specialized furniture; whiteboard; a set of
		devices includes portable
		multimedia projector, laptop,
		projection screen, stable wireless Internet connection. Software:
		Microsoft Windows, MS Office /

Table 6.1. Classroom equipment and technology support requirements

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
		Office 365, MS Teams, Chrome (latest stable release), Skype
Seminar	Auditorium for conducting seminars, group and individual consultations, assessment control and intermediate certification, equipped with a set of furniture and technical means for multimedia presentations.	Set of specialized furniture; whiteboard; a set of devices includes portable multimedia projector, laptop, projection screen, stable wireless Internet connection. Software: Microsoft Windows, MS Office / Office 365, MS Teams, Chrome (latest stable release)
Self-studies	Auditorium for self-study (can be used for seminars and student consultations), equipped with set of furniture and computers with access to the virtual materials.	Set of furniture; technical support including Internet access. Software: Microsoft Windows, MS Office / Office 365, MS Teams, Chrome (latest stable release

7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

- 1) Essentials of Infectious Disease Epidemiology (Essential Public Health) Paperback – 21 Aug. 2007 by Magnus (Author)#
- 2) Infectious Disease Epidemiology, Third Edition Paperback 26 April 2013 by Nelson (Author)
- Harrison's infectious diseases 3rd edition by Dennis Kasper and Anthony S Fauci
- 4) Essentials of Clinical Infectious Diseases by William Floyd Wright.
- 5) Medical Microbiology and Infection at a Glance Fourth edition Stephen H. Gillespie Kathleen B. Bamford.
- 6) Infectious diseases: textbook / Yushchuk N. D., Vengerov Yu. Ya. Moscow: GEOTAR-Media, 2020. 464 p. ISBN 978-5-9704-5504-3.

Additional readings:

- 1. Environmental Epidemiology Principles and Methods (Kindle Edition) Ray M. Merrill 2008
- 2. Epidemiology for Public Health Practice (Kindle Edition) Robert H. Friis, Thomas Sellers 2020
- 3. Foundations of Infectious Disease A Public Health Perspective: A Public Health Perspective David P Adams 2020
- 4. Essential Readings In Infectious Disease EpidemiologyManya Magnus 2008

- 5. Epidemiology Lecture Notes (PDF 86P); This note covers the following topics: Introduction to Epidemiology, Disease Causation, Levels of prevention, Concepts in the infectious diseases, Descriptive Epidemiology, Measurements of Morbidity and Mortality, Epidemic Investigation and Management, Epidemiological Surveillance Author(s): Yigzaw Kebede, University of Gonda <u>https://www.cartercenter.org/resources/pdfs/health/ephti/library/lecture_notes/envoccupa</u> <u>tional_health_students/Epidemiology.pdf</u>
- 6. Epidemiology of Infectious Diseases; This book introduces the basic methods for infectious disease epidemiology and case studies of important disease syndromes and entities. Methods include definitions and nomenclature, outbreak investigations, disease surveillance, case control studies, cohort studies, laboratory diagnosis, molecular epidemiology. Author(s): Johns Hopkins University
- 7. Epidemiology and Public Health; This note explains the following topics: History of Epidemiology and Public Health, Disease Transmission, Measures of Morbidity, Measures of Mortality, Mortality in Different Populations, Transmissible Spongiform Encephalopathy, Arteriosclerosis and Coronary Heart Disease, Influenza. Author(s): David M. Rollins
- 8. Epidemiology and public health; a text and reference book for physicians, medical students and health workers; This note explains the following topics: Respiratory infections, Nutritional disorders, alimentary infections and percutaneous infections. Author(s): Victor Clarence Vaugha
- 9. Basic Epidemiology (PDF 226P);This note covers the following topics: What is epidemiology, Measuring health and disease, Basic biostatistics: concepts and tools, Causation in epidemiology, Epidemiology and prevention: chronic noncommunicable diseases, Types of studies, Communicable diseases: epidemiology surveillance and response, Clinical epidemiology, Environmental and occupational epidemiology, Epidemiology, health policy and planning, First steps in practical epidemiology. Author(s): R Bonita, R Beaglehole and T Kjellstrom-<u>http://apps.who.int/iris/bitstream/handle/10665/43541/9241547073_eng.pdf;jsessionid=8_1A07B357E56EFD3C7B080EFD32DEC38?sequence=1</u>

Internet (based) sources:

- 1. Electronic libraries with access for RUDN students:
- RUDN Electronic Library RUDN EL http://lib.rudn.ru/MegaPro/Web
- University Electronic Library» http://www.biblioclub.ru
- <u>http://www.biblio-online.ru</u>
- Student library (consult) <u>www.studentlibrary.ru</u>
- Lan <u>http://e.lanbook.com/</u>
- Trinity Bridge
- 2. Databases and search engines:
- electronic fund of legal and normative-technical documentation http://docs.cntd.ru/
- Yandex search engine https://www.yandex.ru/

Google search engine https://www.google.ru/
abstract database SCOPUS
http://www.elsevierscience.ru/products/scopus/

Learning toolkits for self- studies in the RUDN LMS TUIS *

1. Guidelines for the implementation and completion of self-study and assessment - <u>https://esystem.rudn.ru/course/view.php?id=8186</u>

* - all educational and methodological materials for independent work of students are placed in accordance with the current procedure on the course section in our virtual education website TUIS!

8. ASSESSMENT TOOLKIT AND GRADING SYSTEM* FOR EVALUATION OF STUDENTS' COMPETENCES LEVEL UPON COURSE COMPLETION

The assessment toolkit and the grading system^{*} to evaluate the competences formation level (GC-8.3, GC-8.4; GPC-7.1; PC-4.1) upon the course study completion are specified in the Appendix to the course syllabus.

* The assessment toolkit and the grading system are formed on the basis of the requirements of the relevant local normative act of RUDN University (regulations / order).

DEVELOPERS:

Associate Professor- Department of Infectious Diseases, Epidemiology and Phthisiology		S.L. Voznesenskiy
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