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Информация о владельце:
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Должность: Ректор
Дата подписания: 28.05.2026 12:33:12
Уникальный программный ключ:
ca953a0120d891083f939673078ef1a989dae18a

**Federal State Autonomous Educational Institution of Higher Education
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA
NAMED AFTER PATRICE LUMUMBA
RUDN University**

Institute of Medicine

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

COURSE SYLLABUS

Public health and healthcare

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)

Discipline “Public health and healthcare ” is included in the specialty program " Dentistry" in the field of 31.05.03 “Dentistry” and is studied in 7 semesters of 4 courses. Department of Public Health, Healthcare and Hygiene implements discipline. The discipline consists of 3 sections and 12 topics and aims at studying the patterns of public health, the impact of social conditions, environmental factors and lifestyle on health, ways to protect and improve it.

Course goal is to study and analyze indicators characterizing the health status of various age-sex, social, professional and other groups of the population; measures to preserve, strengthen and restore health; the theoretical foundations of health; the introduction of new economic and medical-social technologies in the activities of medical institutions.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Course is expected to contribute the following competences:

Table 2.1. List of competences formed in students in the course of mastering the discipline (Learning outcomes)

Competence code	Competence descriptor	Competence formation indicators (within this course)
GC-7	The ability to maintain the proper level of physical fitness to ensure full-fledged social and professional activities	GC-7.1. The choice of health-saving technologies to maintain a healthy lifestyle, taking into account the physiological characteristics of the body
		GC -7.2. Planning the working time in order to optimally combine physical and mental stress and ensure performance
		GC -7.3. Compliance with and promotion of a healthy lifestyle in various life situations and in professional activities
GC-3	The ability to organize and manage the work of a team, developing a team strategy to achieve the goal	GC-3.4. Organizes discussions on a given topic and discussion of the results of the team’s work with the involvement of opponents to the developed ideas
GC-10	The ability to make informed economic decisions in various areas of life	GC-10.1. Uses in the professional sphere the basic documents regulating economic activity, as well as the principles of planning economic activity
		GC-10.2. Justifies economic decision-making, uses economic planning methods to achieve set goals
GPC-10	The ability to organize the work of nurses and paramedical personnel for patient care	GPC-10.5. Analysis of the main medical and statistical indicators (morbidity, disability, mortality, lethality) of the population of the service area
GPC-11	The ability to implement the principles of quality management in professional activities	GPC-11.1. Performance of professional activity of proper quality
SPC-5	The ability to conduct health and hygiene education among the population and	SPC-5.1. Formation in patients (their relatives/legal representatives) motivation for a healthy lifestyle and giving up bad habits

Competence code	Competence descriptor	Competence formation indicators (within this course)
	medical workers in order to form a healthy lifestyle	SPC-5.2. Formation in patients (their relatives/legal representatives) of positive behavior aimed at maintaining and improving the level of health
SPC-7	The ability to conduct organizational and managerial activities	SPC-7.1. Maintaining medical records.
		SPC-7.2. Organization of management of nursing staff, quality control of medical care and medical appointments.
		SPC-7.3. Conducting an examination of temporary disability of patients, disability for caring for a sick child, determining medical indications for employment, transfer to facilitated working conditions, sanatorium treatment.
		SPC-7.4. Analysis and provision of basic medical and statistical indicators in the prescribed manner (morbidity, disability, mortality, lethality) of the population of the service area.
		SPC-7.5. Preparation of work plan and work report

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course refers to the core/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.

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

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
GC-7	The ability to maintain the proper level of physical fitness to ensure full-fledged social and professional activities	Hygiene, Physical Culture and Sports, Applied Physical Culture	
GC-3	The ability to organize and manage the work of a team, developing a team strategy to achieve the goal	<i>Psychology, pedagogy; Pharmacology</i>	Emergency Medicine; Assistant dentist (general practice), incl. research work
GC-10	The ability to make informed economic decisions in various	<i>Economy**</i>	

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
	areas of life		
GPC-10	The ability to organize the work of nurses and paramedical personnel for patient care	<i>Practice in obtaining primary professional skills in nursing positions (Assistant ward and procedural nurse); Organization of general patient care; Internal illnesses;</i>	Clinical pharmacology
GPC-11	The ability to implement the principles of quality management in professional activities	-	Forensic Medicine; Emergency Medicine;
SPC -5	The ability to conduct health and hygiene education among the population and medical workers in order to form a healthy lifestyle	<i>Local anesthesia and anesthesiology in dentistry; Prevention and community dentistry; Psychology, pedagogy; Oral surgery; Hygiene;</i>	Assistant dentist (general practice), incl. research work; Assistant dentist (therapist); Children's dentistry; Head and neck diseases; Implantology and reconstructive surgery of the oral cavity; Orthodontics and children's prosthetics; Maxillofacial and gnathic surgery;
SPC -7	The ability to conduct organizational and managerial activities	<i>Immunology, clinical immunology; Propaedeutics of dental diseases; Organization of general patient care;</i>	

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course 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 hours	Semesters/training modules			
		7			
<i>Classroom learning</i>	51	51			
Including:					
Lectures					
Lab work (LW)					
Seminars (workshops/tutorials)	51	51			
<i>Self-study (ies), academic hours</i>	18	18			
<i>Evaluation and assessment (exam or pass/fail grading)</i>	3	3			

Type of academic activities		Total academic hours	Semesters/training modules			
			7			
Course workload	academic hours	72	72			
	credits	2	2			

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities types
Section 1. Methods of analysis and assessment of public health.	Topic 1.1. Public health and health care as a science and subject of teaching. Research aimed at studying public health. Stages of medical/public health research. Methods of studying public health. Developing a research plan and program. Creating table layouts, calculating relative indicators.	LW
	Topic 1.2. Evaluation of public health and the results of medical/public health research using statistical methods. Methods of statistical data processing. Variational series, estimation of means and their reliability (using the example of calculating the average value by the method of moments – the CPI index of the population). Mastering correlation analysis in evaluating dental health.	LW
	Topic 1.3. Public health assessment. Analysis and assessment of morbidity and disability of the population. Methods of studying population morbidity. Analysis of the structure and dynamics of morbidity, including dental morbidity.	LW
	Topic 1.4. Medical and social aspects of demography. Demography. Mechanical movement of the population. The natural movement of the population. Methods of studying demographic indicators. Calculation and analysis of indicators of mechanical and natural population movement.	LW
Section 2. Management and organization of the work of medical institutions. Organization of the activities of the dental service.	Topic 2.1. Theoretical foundations and principles of healthcare organization. Organization of outpatient and inpatient care. Organization of outpatient-polyclinic and inpatient care for the urban population. Types and functions of medical organizations, activity indicators, and their evaluation.	LW
	Topic 2.2. Basic principles of organization of dental care to the population. Organization of the work of the dental clinic. Organization of the work of an independent dental clinic. Analysis and evaluation of the dental clinic's activities based on the annual report. Assessment of the activities of dentists based on statistical information.	LW
	Topic 2.3. Maternal and child health care system. Organization of dental care for children. The maternal and child health system. Organization of medical	LW

Course module title	Course module contents (topics)	Academic activities types
	and preventive care for women. Social support for motherhood. Analysis and evaluation of the activities of the maternal and child health system institutions: women's consultation clinics, maternity hospitals. Features of organizing medical and preventive care, including dental care, for children. .Analysis and Evaluation of the Activities of the System's Institutions: Children's Clinics and Children's Hospitals.	
	Topic 2.4. Features of the organization of medical (including dental) care for the rural population. Organization of Medical Care for Rural Population. Structure, Tasks, and Functions of Primary Health Care (PHC) in Countries Worldwide. Analysis and Evaluation of the Activities of Rural Healthcare Institutions: Feldsher-Obstetric Points and Rural District	LW
	Topic 2.5. Fundamentals of economics, planning and financing of the dental service. Healthcare Financing. Forms of Insurance in Countries Worldwide. Medical Insurance in the Activities of Healthcare Facilities. Planning and Calculation of Medical Workforce Needs in a Dental Clinic.	LW
	Topic 2.6. Automated information systems in the management of healthcare institutions. Use of Automated Information Systems in the Management of Healthcare Institutions. Analysis of the Application of AIS in the Management of Outpatient and Hospital Facilities.	LW
Section 3. Modern problems of maintaining health, disease prevention.	Topic 3.1. Modern problems of disease prevention and public health promotion. Participation of public organizations in the protection of public health. The concept of "lifestyle," its structure. Factors influencing health. Theories of health formation. Definition of prevention, types. Organization of a disease prevention system.	LW
	Topic 3.2. Family as an object of medical and social research and primary health care. Family health in the assessment of public health. Methodology and program of medico-social research of the family.	LW

6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

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)
Lab-work	Classroom for seminars, workshops, lab works, group and individual consultations, evaluation and assessment, equipped with a set of	A set of specialized furniture; whiteboard; a set of devices includes portable multimedia projector EPSONEB-965, laptop ASUSF9ECore

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
	specialized furniture; whiteboard; a set of devices includes portable multimedia projector, laptop, projection screen, stable wireless Internet connection.	2 DUOT5750, projection screen, stable wireless Internet connection.
Lab-work	Classroom for seminars, workshops, lab works, group and individual consultations, evaluation and assessment, equipped with a set of specialized furniture; whiteboard; a set of devices includes portable multimedia projector, laptop, projection screen, stable wireless Internet connection.	A set of specialized furniture; whiteboard; a set of devices includes portable multimedia projector EPSONEB-965, laptop ASUSF9ECore 2 DUOT5750, projection screen, stable wireless Internet connection.
Lab-work	Classroom for seminars, workshops, lab works, group and individual consultations, evaluation and assessment, equipped with a set of specialized furniture; whiteboard; a set of devices includes portable multimedia projector, laptop, projection screen, stable wireless Internet connection.	A set of specialized furniture; whiteboard; a set of devices includes portable multimedia projector EPSONEB-965, laptop ASUSF9ECore 2 DUOT5750, projection screen, stable wireless Internet connection.
Self-studies	Classroom for self-studies (can be used for seminars, workshops, lab works, group and individual consultations,), equipped with a set of specialized furniture; whiteboard; a set of devices includes portable multimedia projector, laptop, projection screen, stable wireless Internet connection.	A set of specialized furniture; whiteboard; a set of devices includes portable multimedia projector EPSONEB-965, laptop ASUSF9ECore 2 DUOT5750, projection screen, stable wireless Internet connection.

7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

1. Kaverina Elena V. Public Health: study Guide / E.V. Kaverina, A.V. Fomina. - M.: Peoples' Friendship University of Russia, 2019. - 79 p.
2. Healthcare and public health: textbook / ed. G.N. Tsarik. - Moscow: GEOTAR-Media, 2021. URL: https://lib.rudn.ru/MegaPro/UserEntry?Action=Link_FindDoc&id=503724&idb=0
3. Health Program Planning, Implementation, and Evaluation: Creating Behavioral, Environmental, and Policy Change / Edited by Lawrence W. Green, Andrea Carlson Gielen,

Judith M. Ottoson, Darleen V. Peterson, and Marshall W. Kreuter. - Johns Hopkins University Press, 2022. - 466 c.
URL: https://lib.rudn.ru/MegaPro/UserEntry?Action=Link_FindDoc&id=513321&idb=0

Additional readings:

1. Health Economics and Healthcare Reform : Breakthroughs in Research and Practice / Edited by Information Resources Management Association. Medical Information Science Reference, 2018. - 478 c.
URL: https://lib.rudn.ru/MegaPro/UserEntry?Action=Link_FindDoc&id=513318&idb=0E.
2. Public Health and Welfare : Concepts, Methodologies, Tools, and Applications / Edited by Information Resources Management Association. - Information Science Reference, 2017. - 1567 c.
URL: https://lib.rudn.ru/MegaPro/UserEntry?Action=Link_FindDoc&id=513547&idb=0
3. Gómez Eduardo J. Geopolitics in Health : Confronting Obesity, AIDS, and Tuberculosis in the Emerging BRICS Economies / E.J. Gómez. - Johns Hopkins University Press, 2018. - 304 c.
URL: https://lib.rudn.ru/MegaPro/UserEntry?Action=Link_FindDoc&id=513565&idb=0
4. Undergraduate Education for Public Health in the United States [Electronic resource] / Connie J Evashwick [et al.]. 2015. 1 c. ISBN 9782889196111 URL: <http://journal.frontiersin.org/researchtopic/3071/undergraduate-education-for-public-health-in-the-united-states>
5. Law A. Patents and Public Health [Electronic resource] 2009. 1 c. ISBN 9783845212654 URL: <https://www.nomos-elibrary.de/10.5771/9783845212654>
6. Kyriakos Souliotis, Mihajlo (Michael) Jakovljevic, Wim Groot. Health Care Financing and Affordability in the Emerging Global Markets [Electronic resource] 2016. 1 c. ISBN 9782889198375 URL: <http://journal.frontiersin.org/researchtopic/3696/health-care-financing-and-affordability-in-the-emerging-global-markets>
7. Aslak Tveito, Glenn T. Lines. Making Medicines in Africa: The Political Economy of Industrializing for Local Health [Electronic resource] 2016. 1 c. ISBN 9783319300290 URL: <http://www.oapen.org/download/?type=document&docid=1001880>
8. Jerry Cromwell, Michael Trisolini, Gregory Pope, Janet Mitchell, Leslie Greenwald. Pay for performance in health care: Methods and approaches [Electronic resource] 2011. 1 c. ISBN 9781934831045 URL: <https://www.rti.org/rti-press-publication/pay-performance-health-care>
9. Inaki Gutierrez-Ibarluzea, Irene Lenoir-Wijnkoop, Dominique J. Dubois. Today's Nutrition and Tomorrow's Public Health: Challenges and Opportunities [Electronic resource] 2016. 1 c. ISBN 9782889198184 URL: <http://journal.frontiersin.org/researchtopic/3214/todays-nutrition-and-tomorrows-public-health-challenges-and-opportunities>
10. Pioneering Healthcare Law [Electronic resource] / Mullock A. [et al.]. 2016. 1 c. ISBN 9781315716107 URL: <http://www.oapen.org/view?docId=593991.nxml>
11. Triberti S., Graffigna, Guendalina , Barello, Serena . Patient Engagement. A Consumer-Centered Model to Innovate Healthcare [Electronic resource] 2015. 1 c. ISBN 9783110452440 URL: <https://doi.org/10.1515/9783110452440>
12. Health For All [Electronic resource] / Bhattacharya S. [at al.]. 2015. 1 c. ISBN 9788125059004 URL: <http://www.oapen.org/download/?type=document&docid=576912>
13. Workshop on public health and health care [Text]: Study guide / I.N. Denisov [et al.]. – 3rd ed., cor. - M.: Medical Information Agency, 2017. - 461 p.
14. Knowledge and skills of the Public Health and Public Health System's curriculum. For IV-VI year medical students and postgraduate students / D. Kitcha, I. Kalmykova, A. Fomina, T. Lyapunova. – Moscow: Peoples' Friendship University of Russia, 2011. –80 p.

Internet-(based) sources

1. Electronic libraries with access for RUDN students
 - Electronic Library System (ELS) of the RUDN University <http://lib.rudn.ru/MegaPro/Web>
 - ELS "University Library Online" <http://www.biblioclub.ru>
 - ELS Jurait <http://www.biblio-online.ru>
 - ELS «Student consultant» www.studentlibrary.ru
 - ELS «Lan» <http://e.lanbook.com/>

2. Databases and search engines:

- electronic fund of legal and regulatory technical documentation <http://docs.cntd.ru/>
- Yandex search engines <https://www.yandex.ru/>
- Google search engine <https://www.google.com/>
- reference database SCOPUS <http://www.elsevierscience.ru/products/scopus/>
- WHO documentation center <http://whodc.mednet.ru/>
- Springer <https://rd.springer.com/>

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

1. A course of lectures on the discipline "Public health and Healthcare".

* - All learning toolkits for self- studies are available to the students on the course page in the RUDN LMS TUIS: <https://esystem.rudn.ru/course/view.php?id=9604>

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

9.

Assessment and Evaluation Toolkit and Assessment & Grading System* for assessing the level of competence formation based on the results of mastering the discipline Public health and Healthcare " are presented in the Appendix to this Work Program of the discipline.

* - Assessment and Evaluation Toolkit and Assessment & Grading System are formed on the basis of the requirements of the relevant local normative act of the RUDN University.

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