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**Federal State Autonomous Educational Institution for Higher Education  
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA  
RUDN University**

**Institute of Medicine**

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

**COURSE SYLLABUS**

**Public health and healthcare,  
Healthcare economics**

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course title

**Recommended by the Didactic Council for the Education Field of:**

**31.05.01 General Medicine**

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field of studies / speciality code and title

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

**General Medicine**

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higher education programme profile/specialisation title

## 1. COURSE GOAL(s)

Discipline "Public health and healthcare, Healthcare economics" is included in the specialty program "General Medicine" in the field of 05.31.01 "General Medicine" and is studied in 6, 7 semesters of 3, 4 courses. Department of Public Health, Healthcare and Hygiene implements discipline. The discipline consists of 6 sections and 21 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 Aims and Objectives are 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	Indicators of Competence Development
General Competences		
GC-1	The ability to carry out a critical analysis of problem situations based on a systematic approach, to develop an action strategy	GC-1.1. Analysis of scientific and technical literature and regulatory documentation of medical organizations GC-1.2. Critical assessment of the reliability of information sources, the ability to work with conflicting information from different sources GC-1.3. Understanding trends, strategic objectives, health issues. Orientation in the legislative framework for the development of strategies GC -1.4. Analysis and assessment of the economic potential, financial stability and risks of the organization
GC-2	The ability to manage a project at all stages of its life cycle	GC-2.1. Knowledge of health regulations and standards GC-2.2. Understanding the features of the organization and management of nursing activities, quality control of medical care, organizational and methodological activities of a medical organization GC-2.3. The ability to plan and manage the structural units of a medical organization. GC-2.4. Development of the concept of the project within the framework of the designated problem: formulation of the goal, objectives, substantiation of relevance, significance, expected results.

<b>Competence Code</b>	<b>Competence</b>	<b>Indicators of Competence Development</b>
GC-3	The ability to organize and manage the work of a team, developing a team strategy to achieve the goal	GC-3.1. Knowledge of similarities and differences between projects and business processes, marketing research methods, principles of communication with staff. GC-3.2. Skills in making managerial decisions, organizing teamwork, organizing meetings and business conversations.
GC-5	The ability to analyze and take into account the diversity of cultures in the process of intercultural interaction	GC-5.3. Builds social professional interaction taking into account international legislation in the field of health care and the characteristics of intercultural interaction
GC-6	The ability to determine and implement priorities for own activities and ways to improve them based on self-esteem and lifelong education	GC-6.1. Evaluates his resources and their limits (personal, situational, temporary), optimally uses them to successfully complete the assigned task; GC-6.3. Determines priorities for professional growth and ways to improve one's own activities based on self-assessment according to selected criteria;
GC-10	The ability to make economic decisions in various areas of life	GC-10.1. Knowledge of the concepts of economic science, the basic principles of the functioning of the economy. Knowledge of the purpose and mechanisms of the main types of social economic policy. GC -10.2. Ability to use the methods of economic and financial planning to achieve the goal. GC -10.3. Proficiency in the use of economic instruments for financial management, taking into account economic and financial risks in various areas of life.
<b>General Professional Competences</b>		
GPC-9	The ability to implement the principles of quality management in professional activities	GPC-9.1. The ability to perform professional activities of appropriate quality GPC-9.2. The ability to analyze and critically evaluate the quality of professional activity according to the given indicators. GPC-9.3. The ability to develop a plan of organizational and methodological measures to achieve an appropriate level of quality of professional activity
GPC-11	The ability to prepare and apply scientific, research and production, design, organizational, managerial and regulatory	GPC-11.1. The ability to prepare scientific, research and production, design, organizational, managerial and regulatory documentation in accordance with the direction of professional activity and the current requirements for their design.

Competence Code	Competence	Indicators of Competence Development
	documentation in the healthcare system	GPC-11.2. The ability to apply scientific, research and production, design, organizational, managerial and regulatory documentation in the framework of their professional activities
Specialized Professional Competences		
SPC-6	The ability to maintain medical records and organize the activities of nursing staff	SPC-6.1. The ability to draw up a work plan and a report on their work, to issue a passport for a medical (therapeutic) site. SPC-6.2. The ability to analyze the indicators of morbidity, disability and mortality to characterize the health of the attached population. SPC-6.3. The ability to maintain medical records, including in electronic form. SPC-6.4. The ability to monitor the performance of duties by a district nurse and other medical workers. SPC-6.5. The ability to provide internal quality control and safety of medical activities within the scope of official duties.
SPC-4	Capable of implementing and monitoring the effectiveness of the patient's medical rehabilitation, including the implementation of individual rehabilitation or habilitation programs for people with disabilities, assessing the patient's ability to carry out work activities	SPC-4.1. The ability to conduct an examination of temporary disability and work as part of a medical commission that carries out an examination of temporary disability; SPC-4.2. The ability to prepare the necessary medical documentation for the implementation of medical and social examination in federal state institutions of medical and social examination;

### 3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The Course on 'Public Health and Healthcare, Healthcare Economics' is taught within the block of the Compulsory Disciplines Module (Block B1 of the Higher Education Program).

As part of the Higher Education Program, students also master other disciplines and practices that contribute to expected learning outcomes of the discipline "Public Health and Healthcare, Healthcare Economics".

*Table 3.1. List of Higher Education Program components that contribute to expected learning/training outcomes*

Competence code	Competence	Previous Disciplines (Modules)	Subsequent Disciplines (Modules)
General competences			

<b>Competence code</b>	<b>Competence</b>	<b>Previous Disciplines (Modules)</b>	<b>Subsequent Disciplines (Modules)</b>
GC-1	The ability to carry out a critical analysis of problem situations based on a systematic approach, to develop an action strategy	Philosophy, Mathematics, Physics, Hygiene, Propaedeutics of Internal Diseases, Chemistry, Medical informatics; Bioorganic chemistry; History of medicine	Clinical pharmacology
GC-2	The ability to manage a project at all stages of its life cycle	-	Fundamentals of medical law
GC-3	The ability to organize and manage the work of a team, developing a team strategy to achieve the goal	-	-
GC-5	The ability to analyze and take into account the diversity of cultures in the process of intercultural interaction	Philosophy; History (History of Uzbekistan); Bioethics**; History of Medicine; Fundamentals of Russian statehood; Religious Studies; Russian language and culture of speech; Rhetoric**; Foreign language**; Foreign language (elective); Russian language for foreign students; Psychology of ethnic conflict**	Methods of teaching Russian as a foreign language. Translation Basics
GC-6	The ability to determine and implement priorities for own activities and ways to improve them based on self-esteem and lifelong education	Psychology and pedagogy; Introduction to the specialty; Philosophy	-
GC-10	The ability to make economic decisions in various areas of life	-	-
<b>General Professional Competences</b>			
GPC-9	The ability to implement the	Internship to obtain primary professional	Clinical pharmacology

Competence code	Competence	Previous Disciplines (Modules)	Subsequent Disciplines (Modules)
	principles of quality management in professional activities	skills: assistant to junior medical staff; Organization of special care for patients; Introduction to the specialty	
GPC-11	The ability to prepare and apply scientific, research and production, design, organizational, managerial and regulatory documentation in the healthcare system	Pharmacology, Medical Enzymology, Hygiene	Hygiene; Latin language; Anatomy
<b>Specialized Professional Competences</b>			
SPC-6	The ability to maintain medical records and organize the activities of nursing staff	Introductory practice to obtain primary professional skills: nursing (simulation center); Introductory practice to obtain primary professional skills: nursing; Internship to obtain primary professional skills: assistant to junior medical staff; Biostatistics; General surgery; Propaedeutics of internal diseases; Bioethics**;	Outpatient therapy; Faculty Therapy; Faculty of Surgery; Obstetrics and gynecology; Urology; Infectious diseases; Endoscopic urology; Modern methods of medical statistics; Allergology; Oncology, radiation therapy; Ophthalmology; Hospital therapy; Hospital surgery, pediatric surgery; Pediatrics; Anesthesiology, resuscitation, intensive care; Telemedicine; Forensic Medicine; General medical practice: assistant physician in an outpatient clinic; Obstetrics and gynecology practice: assistant gynecologist; Assistant physician of a therapeutic profile: assistant physician of a general practitioner; Obstetrics and gynecology practice: assistant obstetrician;

Competence code	Competence	Previous Disciplines (Modules)	Subsequent Disciplines (Modules)
			Surgical practice: assistant surgeon;
SPC-4	Capable of implementing and monitoring the effectiveness of the patient's medical rehabilitation, including the implementation of individual rehabilitation or habilitation programs for people with disabilities, assessing the patient's ability to carry out work activities	Organization of special care for patients	Surgical practice: assistant surgeon; General medical practice: assistant physician in an outpatient clinic; Forensic Medicine; Outpatient therapy; Medical rehabilitation; Examination of temporary disability**; Neurology, medical genetics, neurosurgery; Faculty Therapy; Faculty of Surgery; Occupational diseases; Hospital therapy; Hospital surgery, pediatric surgery; Endocrinology; Traumatology, orthopedics

#### 4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The course total workload is equal to 5 credits

Table 4.1. Types of academic activities during the period of the HE program(me) mastering

Type of academic activities	Total hours	Semesters			
		6	7		
<i>Classroom learning</i>	104	68	36		
Including:					
Lectures					
Lab work (LW)	104	68	36		
Seminars (workshops/tutorials)					
<i>Self-study (ies), academic hours</i>	37	19	18		
<i>Evaluation and assessment (exam or pass/fail grading)</i>	39	21	18		
<b>Course workload</b>	academic hours	<b>180</b>	<b>108</b>	<b>72</b>	
	credits	<b>5</b>	<b>3</b>	<b>2</b>	

#### 5. COURSE CONTENTS

Table 5.1. Course Modules and Contents and types of academic activities

<b>Course module</b>	<b>Content of the module</b>	<b>Type of academic activities *</b>
Section 1. Public health and health care as a discipline, scientific and medical specialty. Mastering methods and techniques for studying the state of health of the population.	Topic 1.1. Organization and stages of medical/public health research.	LW
	Topic 1.2. Mastering methods for developing statistical material, methods for calculating and evaluating population health indicators.	LW
	Topic 1.3. Family health in public health assessment. Methodology and program of medical and social research of the family.	LW
Section 2. Methods for assessing the health of the population and research results.	Topic 2.1. Evaluation of the health of the population and the results of medical/public health research using average values and indicators.	LW
	Topic 2.2. Evaluation of public health and the results of medical/public health using correlation analysis.	LW
	Topic 2.3. Determining the required number of observations in selective studies. Small sample.	LW
	Topic 2.4 Evaluation of public health and the results of medical/public health research using the compilation of time series and their processing.	LW
Section 3. Morbidity of the population in the assessment of public health	Topic 3.1. Analysis and assessment of the incidence of the population, methods and means. International classification of diseases related to health problems.	LW
	Topic 3.2. Morbidity with temporary disability. Organization of examination of incapacity for work.	LW
	Topic 3.3. Disability in public health assessment. The activities of the medical and social expert commission.	LW
	Topic 3.4. Morbidity of the population in the countries of the world. World Health Organization (WHO).	LW
Section 4. Demographic indicators in public health assessment	Topic 4.1. Demography. Medical and social aspects. Mechanical movement of the population. The natural movement of the population.	LW
	Topic 4.2. Life expectancy as an indicator of public health assessment. Features of demographic characteristics in the countries of the world. Demographic policy in the countries of the world.	LW
Section 5. Management and organization of work of medical organizations	Topic 5.1. Structure, tasks and functions of healthcare. Organization of outpatient and inpatient care for the urban population. The use of automated	LW



Course module	Content of the module	Type of academic activities *
	information systems in the management of healthcare institutions.	
	Topic 5.2. Specialized medical care, features of the organization. Types of specialized medical care. Highly specialized and high-tech medical care.	LW
	Topic 5.3. The system of protection of motherhood and childhood. Organization of medical and preventive care for women and children. Social support for motherhood.	LW
	Topic 5.4. Features of the organization of medical care for workers of industrial enterprises. Federal Biomedical Agency.	LW
	Topic 5.5. Organization of medical care for the rural population. Structure, tasks and functions of primary health care in the countries of the world.	LW
Section 6. Fundamentals of Health Economics and health insurance. Health care management and medical personnel management.	Topic 6.1. Fundamentals of Economics and Health Planning. Evaluation of the effectiveness of organizational measures in healthcare, economic analysis of the activities of medical facilities, planning the need for medical personnel and hospital beds.	LW
	Topic 6.2. Health financing. Forms of insurance in the countries of the world. Medical insurance in the activities of healthcare facilities.	LW
	Topic 6.3. Fundamentals of health care management. Training of medical personnel.	LW

## 6. Classroom Equipment and Technology Support Requirements

Table 6.1. Classroom Equipment and Technology Support Requirements

Classroom for Academic Activity Type	Classroom Infrastructure	Specialized Classroom Equipment, software and materials
Lab works	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 works	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	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.

<b>Classroom for Academic Activity Type</b>	<b>Classroom Infrastructure</b>	<b>Specialized Classroom Equipment, software and materials</b>
	multimedia projector, laptop, projection screen, stable wireless Internet connection.	
Lab works	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. Recommended Sources for Course Studies

### *Main reading(sources):*

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](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](https://lib.rudn.ru/MegaPro/UserEntry?Action=Link_FindDoc&id=513321&idb=0)

### *Additional reading (sources):*

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](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](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](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.]. – 3<sup>rd</sup> 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](http://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.elsevier.com/locate/scopus/>

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

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

\* - 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 and Evaluation Toolkit and Assessment & Grading System**

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, Healthcare Economics" 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.

#### **Developers:**

Associate Professor of the  
Department of Public Health,  
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E.V. Kaverina

**Head of the Department** of  
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A.V. Fomina

#### **Head of the Department:**

N.V. Sturov