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Должность: Ректор  
Дата подписания: 07.06.2023 17:43:25  
Уникальный программный ключ:  
ca953a0120d891083f939673078ef1a989dae18a

**Federal State Autonomous Educational Institution of 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**

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**Public Health and Healthcare, Healthcare Economics**

course title

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

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**31.05.01 General Medicine**

field of studies / speciality code and title

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

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**General Medicine**

higher education programme profile/specialisation title

2022-2023

## 1. COURSE GOAL(s)

The goal of the course "Public Health and Healthcare, Healthcare Economics" is to equip students with the knowledge necessary to 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

Mastering the course (module) "Public Health and Healthcare, Healthcare Economics" is aimed at the development of the following competences /competences in part: GC -7.1; GC -7.2; GC -7.3; SPC-5.1; SPC-5.2; SPC-7.1; SPC-7.2; SPC-7.3; SPC-7.4; SPC-7.5.

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

Competence code	Competence descriptor	Competence formation indicators (within this course)
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

Competence code	Competence descriptor	Competence formation indicators (within this course)
		<p>GC-2.3. The ability to plan and manage the structural units of a medical organization.</p> <p>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.</p>
GC-3	The ability to organize and manage the work of a team, developing a team strategy to achieve the goal	<p>GC-3.1. Knowledge of similarities and differences between projects and business processes, marketing research methods, principles of communication with staff.</p> <p>GC-3.2. Skills in making managerial decisions, organizing teamwork, organizing meetings and business conversations.</p>
GPC-9	The ability to implement the principles of quality management in professional activities	<p>GPC-9.2. The ability to analyze and critically evaluate the quality of professional activity according to the given indicators.</p> <p>GPC-9.3. The ability to develop a plan of organizational and methodological measures to achieve an appropriate level of quality of professional activity</p>
GPC-11	The ability to prepare and apply scientific, research and production, design, organizational, managerial and regulatory documentation in the healthcare system	<p>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.</p> <p>GPC-11.2. The ability to apply scientific, research and production, design, organizational, managerial and regulatory documentation in the framework of their professional activities</p>
SPC-6	The ability to maintain medical records and organize the activities of nursing staff	<p>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.</p> <p>SPC-6.2. The ability to analyze the indicators of morbidity, disability and mortality to characterize the health of the attached population.</p>

Competence code	Competence descriptor	Competence formation indicators (within this course)
		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.

### 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-1	The ability to carry out a critical analysis of problem situations based on a systematic approach, to develop an action strategy	Philosophy History of Medicine Psychology, Pedagogy Mathematics Physics Biochemistry Anatomy Immunology Hygiene Propaedeutics of Internal Diseases Medical Enzymology	Epidemiology Medical Genetics, Neurology, Neurosurgery Disaster Medicine Faculty Therapy hospital therapy Endocrinology Infectious Diseases Phthysiology Anesthesiology, Resuscitation, Intensive Care Allergology
GC-2	The ability to manage a project at all stages of its life cycle	Physics	-
GC-3	The ability to organize and manage the work of a team, developing a team	-	-

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
	strategy to achieve the goal		
GPC-9	The ability to implement the principles of quality management in professional activities	Organization of specialized patient care	-
GPC-11	The ability to prepare and apply scientific, research and production, design, organizational, managerial and regulatory documentation in the healthcare system	Physics, Pharmacology, Medical Enzymology, Hygiene	-
SPC-6	The ability to maintain medical records and organize the activities of nursing staff	Immunology Propaedeutics of internal diseases Radiodiagnosis General Surgery	Polyclinic Therapy Oncology, Radiodiagnosis Maxillofacial Surgery Allergology Practice in the Surgical field: Surgical Assistant General Practitioner

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

#### 4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

##### Possible wording

1The total workload of the course is \_\_\_\_\_ credits (\_\_\_\_\_ 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			
		6	7		
Contact academic hours	104	68	36		
including:					
Lectures (LC)					
Lab work (LW)	104	68	36		
Seminars (workshops/tutorials) (S)					
Self-studies	58	31	37		
Evaluation and assessment (exam/passing/failing grade)	18	9	9		

Type of academic activities		Total academic hours	Semesters/training modules			
			6	7		
Course workload	academic hours	180	108	72		
	credits	5	3	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*

Course module title	Course module contents (topics)	Academic activities types
Module 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
Module 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
Module 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

Course module title	Course module contents (topics)	Academic activities types
	Topic 3.4. Morbidity of the population in the countries of the world. World Health Organization (WHO).	LW
Module 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
Module 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 information systems in the management of healthcare institutions.	LW
	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
Module 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

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

## 6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

*Table 6.1. Classroom equipment and technology support requirements*

<b>Type of academic activities</b>	<b>Classroom equipment</b>	<b>Specialised educational / laboratory equipment, software, and materials for course study (if necessary)</b>
Seminar	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. Moscow, Miklukho-Maklaya str., 10, building 2, room 373	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.  Software: Microsoft Windows, MS Office / Office 365, MS Teams, Chrome (latest stable release)
Lab works	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. Moscow, Miklukho-Maklaya str., 10, building 2, room 371	A set of specialized furniture; whiteboard; a set of devices includes portable multimedia projector TOSHIBA X200, laptop ASUSF9ECore 2 DUOT5750, projection screen, stable wireless Internet connection.  Software: Microsoft Windows, MS Office / Office 365, MS Teams, Chrome (latest stable release)
Computer Lab	Computer Lab for seminars, workshops, group and individual consultations, evaluation and assessment, equipped with a set of specialized furniture; whiteboard; a set of devices includes portable multimedia projector, laptop, 9 sets of computer + system unit, projection screen, stable wireless Internet connection. Moscow, Miklukho-Maklaya str., 10, building 2, room 372	A set of specialized furniture; whiteboard; a set of devices includes portable multimedia projector EPSONEB-965, laptop ASUSF9ECore 2 DUOT5750, 9 sets of computer + system unit, projection screen, stable wireless Internet connection.  Software: Microsoft Windows, MS Office / Office 365, MS Teams, Chrome (latest stable release)
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;	A set of specialized furniture; whiteboard; a set of devices includes portable multimedia projector EPSONEB-965, laptop ASUSF9ECore 2 DUOT5750, 9 sets of computer +



Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
	whiteboard; a set of devices includes portable multimedia projector, laptop, projection screen, stable wireless Internet connection. Moscow, Miklukho-Maklaya str., 10, building 2, room 372 (afternoon)	system unit, projection screen, stable wireless Internet connection. Software: Microsoft Windows, MS Office / Office 365, MS Teams, Chrome (latest stable release)

\* The premises for students' self-studies are subject to **MANDATORY** mention

## 7. RESOURCES RECOMMENDED FOR COURSE STUDY

### *Main readings:*

1. Public Health : Study Guide / E.V. Kaverina, A.V. Fomina. - Moscow: RUDN, 2019. - 79 p
2. Public Health and Health care System (supplementary booklet) "slide-guide" / D.I. Kitcha, A.V. Fomina, M.V. Khudaibergenova. – Moscow: Peoples' Friendship University of Russia, 2011. – 58 p.
3. 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.
4. Public Health and Health Care [Electronic resource]: Textbook / V.A. Medic, V.K. Yuriev. - 4<sup>nd</sup> ed., Corr. and add. - M.: GEOTAR-Media, 202 – 672 p..
5. Public Health and Health Care [Electronic resource]: Textbook / Yu.P. Lisitsyn, G.E. Ulumbekov. - 3<sup>rd</sup> ed., Corr. and add. - M.: GEOTAR-Media, 2013. - 544 p.
6. 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.

### *Additional readings:*

1. Guidelines for the preparation of graduation (thesis) and term papers / D.I. Kitcha, O.E. Konovalov, A.V. Fomina. - M.: RUDN, 2009. - 93 p.
2. E. Ammenwerth (ed.), M. Rigby (ed.). Evidence-Based Health Informatics - Promoting Safety and Efficiency through Scientific Methods and Ethical Policy [Electronic resource] 2016. 1 c. ISBN 9781614996347 URL: [www.ebooks.iospress.nl/isbn/9781614996354](http://www.ebooks.iospress.nl/isbn/9781614996354)
3. Madeleine Akrich, João Nunes, Florence Paterson, Vololona Rabeharisoa (dir.). The dynamics of patient organizations in Europe [Electronic resource] 2008. 1 c. ISBN 9782356710079 URL: <http://books.openedition.org/pressesmines/1577>
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>

#### *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.elsevierscience.ru/products/scopus/>
  - WHO documentation center <http://whodc.mednet.ru/>
  - Springer <https://rd.springer.com/>

*Training toolkit for self- studies to master the course \*:*

1. The set of lectures on the course “Public Health and Healthcare, Healthcare Economics”
2. The laboratory workshop (if any).on the course “Public Health and Healthcare, Healthcare Economics”
3. The guidelines for writing a course paper / project (if any) on the course “Public Health and Healthcare, Healthcare Economics”.

\* The training toolkit for self- studies to master the course is placed on the course page in the university telecommunication training and information system under the set procedure.

## **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 -7.1; GC -7.2; GC -7.3; SPC-5.1; SPC-5.2; SPC-7.1; SPC-7.2; SPC-7.3; SPC-7.4; SPC-7.5.) 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 of the  
Department of Public Health,  
Healthcare and Hygiene

\_\_\_\_\_  
position, department

\_\_\_\_\_  
signature

E.V. Kaverina

\_\_\_\_\_  
name and surname

### **HEAD OF EDUCATIONAL DEPARTMENT:**

of Public Health, Healthcare  
and Hygiene

\_\_\_\_\_  
name of department

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A.V. Fomina

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### **HEAD OF HIGHER EDUCATION PROGRAMME:**

Deputy Director of the Medical  
Institute for Dentistry

\_\_\_\_\_  
position, department

\_\_\_\_\_  
signature

S.N. Razumova

\_\_\_\_\_  
name and surname

