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

Institute of Medicine

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

COURSE SYLLABUS

Allergology
course title

Recommended by the Didactic Council for the Education Field of:

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:

General Medicine

higher education programme profile/specialisation title

2022-2023

1. COURSE GOAL(s)

The goal of the course "Allergology" is to equip students with knowledge, skills, and abilities to operate as a general practitioner (family doctor) based on the knowledge they have gained about the etiology, pathogenesis, classification, clinical manifestations, diagnosis and principles of treatment of the most common allergic diseases.
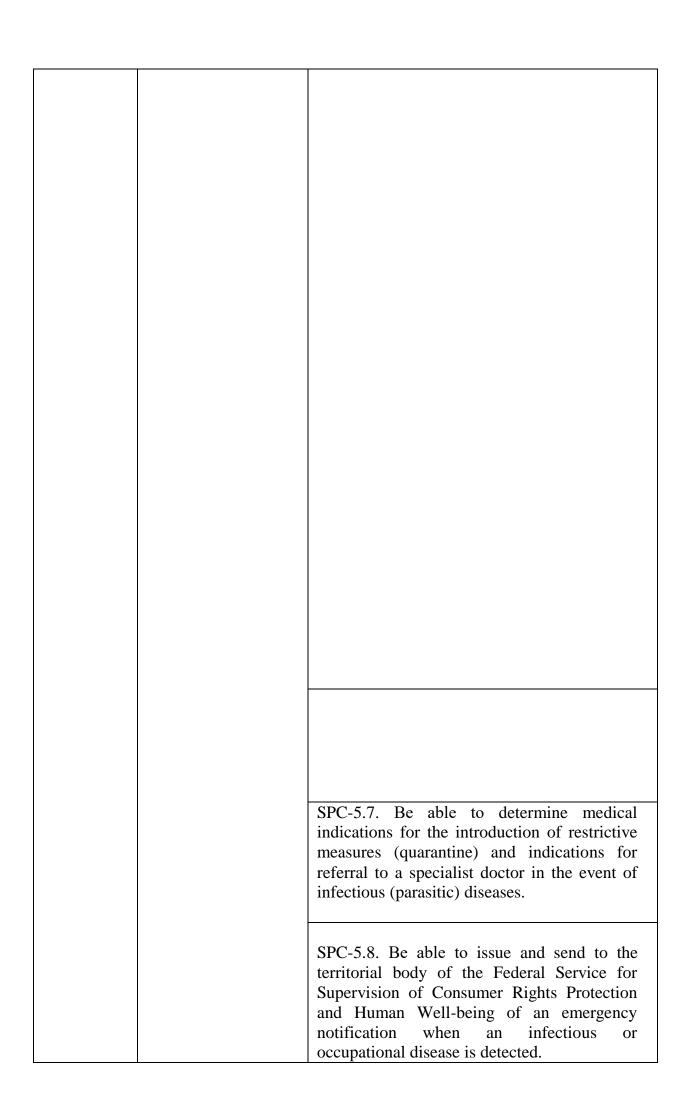
2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) "Allergology" is aimed at the development of the following competences /competences in part: **General Competences (GC) - 1; General Professional Competences (GPC) - 6 (Specialized Professional Competences (SPC) - 1, SPC - 5, SPC – 6.**

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	Is able to carry out a critical analysis of problem situations based on a systematic approach, develop a strategy of actions	GC-1.1. Be able to analyze scientific and technical literature and regulatory documents of medical organizations.
		GC-1.2. Be able to critically assess the reliability of information sources, works with conflicting information from different sources.
		GC-1.3. Understand trends, strategic objectives, health problems. Focuse on the legislative framework for developing strategies.
		GC-1.4. Be able to analyze and evaluate the economic potential, financial stability, and risks of the organization.
GPC - 6	Is able to organize patient care, provide primary health care, ensure the organization of work and make professional decisions in emergency conditions at the prehospital stage, in emergency situations, epidemics and in outbreaks of mass destruction	GPC -6.1. Own the algorithm for providing first aid in emergency conditions, including in extreme conditions and foci of mass destruction.
		GPC-6.2. Know how to identify conditions requiring emergency medical care, including clinical signs of sudden cessation of blood circulation and respiration.
		GPC-6.3. Know how to provide emergency medical care to patients in conditions that pose a threat to the life of patients, including clinical death (stopping the vital functions of the human body (blood circulation and (or) breathing).
SPC - 1	Is able to provide urgent or emergency	SPC-1.1. Be able to assess the condition of a patient requiring emergency or urgent medical care.

	medical care to a patient	SPC-1.2. Be able to recognize conditions arising from sudden acute diseases, exacerbation of chronic diseases without obvious signs of a threat to the patient's life and requiring emergency medical care.
		SPC-1.3. Be ablen to provide emergency medical care to patients with sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life.
		SPC-1.4. Be able to recognize conditions that pose a threat to the patient's life, including conditions of clinical death (stopping the vital functions of the human body (blood circulation and / or breathing), requiring emergency medical care.
		SPC-1.5 Be able to provide emergency medical care to patients in conditions that pose a threat to the patient's life, including clinical death (stopping the vital functions of the human body (blood circulation and / or respiration).
		SPC-1.6. Be able to use drugs and medical devices in the provision of medical care in emergency or urgent forms.
SPC - 5	Is able to carry out and monitor the efficacy of measures for the prevention and formation of a healthy lifestyle and health education of the population	SPC-5.1. Be able to organize and conduct medical examinations, considering age, health status, profession in accordance with applicable regulatory legal acts and other documents.
		SPC-5.2. Be able to organize and control the immunization of 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, considering the standards of medical care

		SPC-5.3. Be able to carry out prophylactic medical examination of the adult population with the aim of early detection of chronic non-communicable diseases and the main risk factors for their development in accordance with the current regulatory legal acts and other documents.
		SPC-5.4. Be able to conduct dispensary observation of patients with identified chronic non-infectious diseases.
		SPC-5.5. Be able to prescribe preventive measures to patients, considering risk factors in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care.
		SPC-5.6. Be able to monitor compliance with preventive measures.
		SPC-5.7. Be able to determine medical indications for the introduction of restrictive measures (quarantine) and indications for referral to a specialist doctor in the event of infectious (parasitic) diseases.
		SPC-5.8. Be able to issue and send to the territorial body of the Federal Service for Supervision of Consumer Rights Protection and Human Well-being of an emergency notification when an infectious or occupational disease is detected.
		SPC-5.9. Be able to carry out anti-epidemic measures in the event of a focus of infection, including quarantine measures when especially dangerous (quarantine) infectious diseases are detected.
		SPC-5.10. Be able to form healthy lifestyle programs, including programs to reduce alcohol and tobacco consumption, prevent and combat non-medical use of narcotic drugs and psychotropic substances.
		SPC-5.11. Be able to assess the effectiveness of preventive work with patients.

		SPC-5.7. Be able to determine medical indications for the introduction of restrictive measures (quarantine) and indications for referral to a specialist doctor in the event of infectious (parasitic) diseases.
		SPC-5.8. Be able to issue and send to the territorial body of the Federal Service for Supervision of Consumer Rights Protection and Human Well-being of an emergency notification when an infectious or occupational disease is detected.

		SPC-5.9. Be able to carry out anti-epidemic measures in the event of a focus of infection, including quarantine measures when especially dangerous (quarantine) infectious diseases are detected.
		SPC-5.10. Be able to form healthy lifestyle programs, including programs to reduce alcohol and tobacco consumption, prevent and combat non-medical use of narcotic drugs and psychotropic substances.
		SPC-5.11. Be able to assess the effectiveness of preventive work with patients.
SPC - 6	Is able to maintain medical records and organize the activities of the nursing staff at the disposal	SPC-6.1. Be able to draw up a work plan and a report on his work, to issue a passport for a medical (therapeutic) section.
		SPC-6.2. Be able to analyze the indicators of morbidity, disability, and mortality for the characteristics of the health of the attached population.
		SPC-6.3. Be able to maintain medical records, including in electronic form.
		SPC-6.4. Be able to monitor the performance of official duties by the district nurse and other medical personnel at the disposal.
		SPC-6.5. Be able to provide internal control of the quality and safety of medical activities within the scope of his job 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	Is able to carry out a critical analysis of problem situations based on a systematic approach, develop a strategy of actions	Philosophy, Physics, Biochemistry, Anatomy, Immunology, Hygiene, Public Health and Health, Health Economics, Epidemiology, Neurology, Medical Genetics, Neurosurgery, Medical Elementology	Hospital therapy, Endocrinology, infectious diseases, Phthisiatry
GPC - 6	Is able to to organize patient care, provide primary health care, ensure the organization of work and make professional decisions in emergency conditions at the prehospital stage, in emergency situations, epidemics and in outbreaks of mass destruction	Life safety, Immunology, General surgery, Topographic anatomy and operative surgery, Epidemiology, Faculty therapy	**Practice:** Introductory practice on obtaining primary professional skills and abilities: nursing (simulation center), Introductory practice on obtaining primary professional skills and skills: nursing, Practice for emergency medical manipulations (simulation center)
SPC - 1	Is able to provide urgent or emergency medical care to a patient	Life safety, Immunology, General surgery, Topographic anatomy and operative surgery. Dermatovenerology, Neurology, Medical Genetics, Neurosurgery, Faculty Surgery, Practices: introductory practice on obtaining	Hospital therapy, Endocrinology, Outpatient Therapy, Hospital Surgery, Pediatric Surgery/ **Practice:** practice in emergency medical procedures (simulation center); practice of a surgical profile: assistant

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
		primary professional skills: care (simulation center), introductory practice on obtaining primary professional skills: care	to a surgeon; practice of a therapeutic profile: assistant to a general practitioner; general practitioner practices: outpatient physician assistant
SPC - 5	Is able to carry out and monitor the efficacy of measures for the prevention and formation of a healthy lifestyle and health education of the population	Immunology, Epidemiology, Introduction to nutriciology	Infectious diseases, Phthisiatry, Outpatient Therapy, Hospital Surgery, Pediatric Surgery, Obstetrics and Gynecology Pediatrics. **Practice:** practice in emergency medical procedures (simulation center); practice of a surgical profile: assistant to a surgeon; practice of a therapeutic profile: assistant to a general practitioner; general practitioner practices: outpatient physician assistant
SPC - 6	Is able to maintain medical records and organize the activities of the nursing staff at the disposal	Immunology, General Surgery, Public Health and Health Care, Health Care Economics, Faculty Surgery	Outpatient Therapy. **Practice:** practice in emergency medical procedures (simulation center); practice of a surgical profile: assistant to a surgeon; practice of a therapeutic profile: assistant to a general practitioner; general practitioner practices: outpatient physician assistant

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course "Allergology" 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
			1
Contact academic hours		*34*	*34*
Including:			
Lectures (LC)			
Lab work (LW)			
Seminars (workshops/tutorials) (S)		34	34
Self-studies		*38*	*38*
Evaluation and assessment (exam/passing/failing grade)		*6*	*6*
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
Module 1. General allergology	**1.1.** Organization of allergy care and public health issues	**S, SS**
	1.2. Assessment of the state of the human immune system	**S, SS**
	1.3. General questions of allergology	**S, SS**
Module 2. Particular allergology	**2.1.** Allergic skin diseases	**S, SS**
	2.2. Bronchial asthma	**S, SS**
	2.3. Allergic rhinitis and rhinoconjunctivitis	**S, SS**
	2.4. Pollen allergy	**S, SS**
	2.5. Urticaria and angioedemas	**S, SS**
	2.6. Drug allergy	**S, SS**
	2.7. Food allergy	**S, SS**
	2.8. Anaphylactic shock	**S, SS**
	2.9. Pseudo-allergic reactions	**S, SS**

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)
Seminar	Classroom for seminars, group and individual consultations, current and intermediate control, equipped with a set of specialized furniture and technical means for multimedia presentations	A set of specialized furniture; whiteboard; a set of devices includes portable multimedia projector EPSON H719B, laptop ASUS, LENOVO B50-10, projection screen, stable wireless Internet connection. Software: Microsoft Windows, MS Office / Office 365, MS Teams, Chrome (latest stable release), Skype; stands, visual materials, wax model collection of skin diseases
Computer Lab	Computer Lab for seminars, group and individual consultations, current and intermediate control, equipped with personal computers (3 pieces), screen/ whiteboard and technical means for multimedia presentations	A set of specialized furniture; a set of devices includes portable multimedia projector EPSON H719B, laptop ASUS, LENOVO B50-10, projection screen, stable wireless Internet connection. Software: Microsoft Windows, MS Office / Office 365, MS Teams, Chrome (latest stable release), Skype; stands, visual materials, wax model collection of skin diseases
Self-studies	Self-studies classroom (can be used for seminars and consultations), equipped with a set of specialized furniture and computers with access to learning toolkits for self-studies in the RUDN LMS TUIS and electronic libraries with access for RUDN students	

7. RESOURCES RECOMMENDED FOR COURSE STUDY

a) Main readings:

1. Peter J. Delves, Seamus J. Martin, Dennis R. Burton, Ivan M. Roitt. Wiley-Blackwell, January 2017

2. Abul Abbas Andrew H. Lichtman Shiv Pillai. Basic Immunology Elsevier. 6th Edition. 2019.
3. Allergology and immunology: national guidelines / Edited by R.M. Khaitova, N.I. Ilyina. M.: GEOTAR-Media, 2016.- 656 p.
4. Khaitov R.M. Immunology (textbook). M.: GEOTAR-Media, 2020.- 720 p.

b) Additional readings:
1. Kovalchuk L.V., Gankovskaya L.V., Meshkova R.Ya. Immunology (workshop). M.: GEOTAR-Media, 2016 .- 640 p.

c) Software:
1. Microsoft Subscription - Enrollment for Education Solutions №86626883 from 01.04.2015
2. Windows 10 corporate with long-term service, version 1607, product code 00378-20000-00003-AA938;
3. Electronic atlas on skin diseases;

d) Internet sources:
1. Electronic fund of legal and regulatory and technical documentation http://docs.cntd.ru/
2. WHO documentation center http://whodc.mednet.ru/
3. Dermatology Image Atlas http://dermatlas.med.jhmi.edu/derm/
4. http: //www.aids.ru
5. http: //www.immunologia.ru
6. http://www.eaaci.org;

f) Electronic libraries with access for RUDN students:
1. ELS RUDN http://lib.rudn.ru/MegaPro/Web
2. ELS "University Library Online" http://www.biblioclub.ru
3. ELS Yurayt http://www.biblio-online.ru
4. ELS "Student Consultant" www.studentlibrary.ru
5. ELS "Lan" http://e.lanbook.com/;

g) Databases and search engines:
1. Yandex search engine https://www.yandex.ru/
2. Google search engine https://www.google.com/
3. Reference database SCOPUS http://www.elsevierscience.ru/products/scopus/
4. eLibrary database http://www.elibrary.ru/defaultx.asp
5. https://pubmed.ncbi.nlm.nih.gov/;

h) Learning toolkits for self- studies in the RUDN LMS TUIS:
1. Guidelines for the implementation of the essay on "Allergology" available at: https://esystem.rudn.ru/course/view.php?id=18313

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

1. The set of lectures on the course "Allergology"

* 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 – 1, GPC – 6, SPC - 1, SPC - 5, SPC – 6**) 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:

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position, department	signature	name and surname

Head of the department of dermatovenereology, allergology and cosmetology		Olga V. Zhukova
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HEAD OF THE DEPARTMENT:

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