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**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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### **Disaster Medicine**

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:**

**General Medicine**

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higher education programme profile/specialisation title

## 1. COURSE GOAL(s)

The goal of the course «Disaster Medicine» is to equip students with knowledge to provide medical assistance to the affected population in emergency situations.

## 2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) “Disaster Medicine” is aimed at the development of the following competences /competences in part: GC-1, GC-8, GPC- 6.

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

<b>Competence code</b>	<b>Competence descriptor</b>	<b>Competence formation indicators (within this course)</b>
GC - 1	Is able to critically analyze problem situations on the basis of a systematic approach, to develop a strategy of action	CC-2.1. Analyzes scientific and technical literature and regulatory documentation of medical organizations.
		CC-2.2. Critically evaluates the reliability of information sources, works with conflicting information from different sources.
		CC-2.3. Understands trends, strategic challenges, and problems in health care. Orientates in the legal framework for developing strategies.
		CC-2.4. Analyzes and evaluates the economic potential, financial stability and risks of the organization.
GC - 8	Is able to create and maintain safe living conditions in everyday life and professional activities to preserve the natural environment, ensure sustainable development of society, including the threat and emergence of emergencies and military conflicts	GPC-8.1. Knows the causes, signs and consequences of hazards, methods of protection from emergencies, the basics of life safety, telephone emergency services
		GPC-8.2. be able to identify signs, causes and conditions of emergencies; assess the likelihood of potential danger to the student and take measures to prevent it in an educational institution; provide first aid in emergencies.
		GPC-7.3 Knows how to predict dangerous or emergency situations and how to maintain safe living conditions.
GPC -6	Is able to organize patient care, provide primary health care, provide organization of work and make professional decisions in case of emergency conditions at pre-hospital	GPC-6.1 Knows the algorithm of first aid in emergencies, including in extreme conditions and hotbeds of mass destruction.

	stage, in emergency situations, epidemics and mass destruction foci	GPC-6.2 be able to identify conditions requiring emergency medical care, including clinical signs of sudden circulatory and respiratory stoppage
		GPC-6.3 is able to provide emergency medical care to patients with life-threatening conditions, including clinical death (arrest of vital human functions (circulation and (or) respiration).

### 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 critically analyze problem situations on the basis of a systematic approach, to develop a strategy of action		History of medicine; Emergency Medicine; Anesthesiology, resuscitation, intensive care
GC -8	Is able to create and maintain safe living conditions in everyday life and professional activities to preserve the natural environment, ensure sustainable development of society, including the threat and emergence of emergencies and military conflicts		Immunology; General surgery; Epidemiology; Topographic anatomy and operative surgery; Medical elementology; Faculty Surgery; Emergency Medicine; Anesthesiology, resuscitation, intensive care
GPC-6	Is able to organize patient care, provide primary health care, provide organization of work and make professional decisions in case of emergency conditions at pre-		Immunology; General surgery; Topographic anatomy and operative surgery; medical rehabilitation; polyclinic therapy; infectious diseases; Pediatrics; obstetrics and gynecology

	hospital stage, in emergency situations, epidemics and mass destruction foci		
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\* To be filled in according to the competence matrix of the higher education programme.

#### 4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course “Disaster Medicine” is 4 credits (144 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		
		11	12	
<i>Contact academic hours</i>	<b>72</b>	<b>36</b>	<b>36</b>	
Including:				
Lectures (LC)				
Lab work (LW)	68	34	34	
Seminars (workshops/tutorials) (S)				
<i>Self-studies</i>	72	36	36	
<i>Evaluation and assessment (exam/passing/failing grade)</i>	4	2	2	
<b>Course workload</b>	academic hours	<b>144</b>	<b>72</b>	<b>72</b>
	credits	<b>4</b>	<b>2</b>	<b>2</b>

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

#### 5. COURSE CONTENTS

*Table 5.1. Course contents and academic activities types*

Course module title	Course module contents (topics)	Academic activities types
<b>Module 1.</b> The current state of development of purulent surgery in Russia and the world.	<b>Topic 1.1.</b> History of purulent surgery and its relationship with surgical and therapeutic specialties.	LW
	<b>Topic 1.2.</b> Method of active surgical treatment of purulent wounds.	LW
	<b>Topic 1.3.</b> Features and principles of treatment of patients with wounds and surgical infections that occurred during natural and man-made disasters	LW
	<b>Topic 1.4.</b> The concept of surgical treatment of a purulent focus.	LW
	<b>Topic 1.5.</b> Differences in the surgical treatment of a purulent focus from PST wounds in	LW

	traumatology. Preoperative management of patients	
	<b>Topic 1.6.</b> The choice of the drug for local treatment, depending on the phase of the course of the wound process. Features of local treatment of burn wounds.	LW
<b>Module 2.</b> Providing first aid, emergency and emergency medical care at the prehospital stage. Stopping circulation. Basic cardiopulmonary resuscitation	<b>Topic 2.1.</b> Professional standards and qualification requirements for doctors of various specialties in terms of emergency and emergency medical care.	LW
	<b>Topic 2.2.</b> Basic cardiopulmonary resuscitation and automated external defibrillation in adults. DBK algorithm with AED.	LW
	<b>Topic 2.3.</b> Types of circulatory arrest (asystole, electromechanical dissociation, ventricular fibrillation, pulseless ventricular tachycardia).	LW
	<b>Topic 2.4.</b> Methodology for conducting basic and advanced resuscitation by one and two providers (health workers) in adults and children.	LW
	<b>Topic 2.5.</b> Methods of temporary provision of patency of the upper respiratory tract.	LW
<b>Module 3.</b> Reconstructive and plastic surgery in purulent surgery. Autodermoplasty. Wound plasty with local tissues.	<b>Topic 3.1.</b> Classification of reconstructive and plastic surgeries.	LW
	<b>Topic 3.2.</b> Autodermoplasty: types, technique, indications for use	LW
	<b>Topic 3.3.</b> Wound plasty with local tissues: types, technique, indications for use.	LW
	<b>Topic 3.4.</b> Flap classification	LW
	<b>Topic 3.5.</b> Reconstructive and plastic surgery in the surgical treatment of deep bedsores.	LW
	<b>Topic 3.6.</b> Microsurgical transplantation of tissue complexes: types, technique, indications for use.	LW
<b>Module 4.</b> Strong and poisonous substances.	<b>Topic 4.1.</b> Toxicology	LW
	<b>Topic 4.2.</b> Organization of medical care for those affected by emergency hazardous chemicals (in the focus, outside the focus of chemical damage).	LW
	<b>Topic 4.3.</b> Work in a playful way in a simulation environment according to clinical scenarios using standard medical equipment and improvised means for immobilizing and transporting victims.	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*

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
Lab work	An auditorium for seminars, individual consultations, current control and intermediate certification, equipped with a set of specialized furniture and equipment (NDHIT Lecture hall 1, staff room. Doctor's workplace. FMBA Classroom 2,3, 35. PFUR, room 244, 842 at Miklukho-Maklay,)	Set of specialized furniture, Monoblock 21.5" HP 22-b056ur, Notebook HP 250 G5, Notebook HP OrpBook 450G0 Multimedia projector Acer PD120 2000, projector NEC NP210 contr.30, projector Epson EB-W05 Software: Microsoft products (OS, office suite, including MS Office/Office 365, Teams); Robot trainers. First aid kit.
Self-studies	An auditorium for independent work of students (can be used for laboratory classes and consultations), equipped with a set of specialized furniture (NDHIT Lecture hall 1, staff room. Doctor's workplace. FMBA Classroom 2,3, 35. PFUR, room 244, 842 at Miklukho-Maklay,)	Set of specialized furniture, Monoblock 21.5" HP 22-b056ur, Notebook HP 250 G5, Notebook HP OrpBook 450G0 Multimedia projector Acer PD120 2000, projector NEC NP210 contr.30, projector Epson EB-W05 Software: Microsoft products (OS, office suite, including MS Office / Office 365, Teams)

\* - the audience for independent work of students is indicated MANDATORY!

## 7. RECOMMENDED SOURSES for COURSE STUDIES

### *Main readings:*

1. Koshelev A.A. Emergency Medicine. Theory and Practice: Textbook / A.A. Koshelev. - 3rd ed., stereotype. - St. Petersburg. : Lan, 2016. - 320 p. - (Textbooks for universities. Special literature). - ISBN 978-5-8114-2091-9:550.00.54.5-K 76. 50 pcs.
2. Emergency Medicine. Textbook for students of the specialty "Pharmacy" / Ibragimova A.N., Sokov S.L., in 2 parts, 2020, Part 1. - 48 p. ; Part 2. - 42 p.: with ill.
3. Kavalersky G.M. Medicine of emergencies. Disaster Surgery [Text] Textbook / G.M. Kavalersky, A.V. Harkavy. - M.: Medical Information Agency, 2015. - 376 p. : ill. - ISBN 978-5-9986-0235: 840.00. 54.58 - K 12 - 60 pcs.

### *Additional readings:*

1. Sidorov P.I. Disaster Medicine Textbook for universities / P.I. Sidorov, I.G. Mosyagin. - M.: Academy, 2010. - 320 p. - (Higher professional education. Medicine). - Application: CD. - ISBN 978-5-7695-6883-1 390.58. 54.58 - C34 - 34 pcs.

### *Resources of the information and telecommunications network "Internet":*

1. RUDN ELS and third-party ELS, to which university students have access on the basis of concluded agreements:

- RUDN Electronic Library System - RUDN EBS <http://lib.rudn.ru/MegaPro/Web>
- ELS "University Library Online" <http://www.biblioclub.ru>
- EBS Yurayt <http://www.biblio-online.ru>
- EBS "Student Advisor" [www.studentlibrary.ru](http://www.studentlibrary.ru)
- EBS "Lan" <http://e.lanbook.com/>

### 2. Databases and search engines:

- NCBI: <https://p.360pubmed.com/pubmed/>
- Bulletin of RUDN University: access mode from the territory of RUDN University and remotely <http://journals.rudn.ru/>
- Scientific library Elibrary.ru: access to RUDN University IP addresses at: <http://www.elibrary.ru/defaultx.asp>
- ScienceDirect (ESD), "FreedomCollection", "Cell Press" ID "Elsevier". There is remote access to the database, access to RUDN University IP addresses (or remotely using an individual login and password).
- Google Academy (English Google Scholar) - free search engine for full texts of scientific publications of all formats and disciplines. Indexes full texts of scientific publications. Access mode: <https://scholar.google.ru/>
- Scopus-scientometric database of publishing house "Elsevier". Access to the platform is carried out by RUDN University IP addresses or remotely. <http://www.scopus.com/>
- web of science. Access to the platform is carried out by RUDN University IP addresses or remotely. <http://login.webofknowledge.com/>

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

#### 1. The set of lectures on the course "Disaster Medicine"

\* 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, GC-8, GPC- 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:**

Associate Professor, Department of  
Disaster Medicine

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

\_\_\_\_\_  
signature

Yu.S. Paskhalova

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

**HEAD OF EDUCATIONAL DEPARTMENT:**

of Disaster Medicine

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

\_\_\_\_\_  
signature

V.A. Mitish

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

**HEAD**

**OF HIGHER EDUCATION PROGRAMME:**

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Iv.V.Radish

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