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

**Institute of Medicine**

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

**COURSE SYLLABUS**

**Disaster Medicine**

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course title

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

**31.05.03 Dentistry**

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field of studies / speciality code and title

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

**Dentistry**

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higher education programme profile/specialisation title

**2024-2025**

## 1. COURSE GOAL(s)

The goal of the course "**Disaster Medicine**" is to equip student with the knowledge in theory and practice /at mastering/raising awareness of Disaster Medicine and deepen students' knowledge in patterns of formation of hazards and measures to prevent their impact on humans.

## 2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) "Disaster Medicine" is aimed at the development of the following competences /competences in part: GC – 2, GPC-7, PC-3.

*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 - 2	Able to manage a project at all stages of its life cycle	GC-2.1. Based on the problem posed, formulates a project task and a way to solve it through the implementation of project management
		GC-2.2. Develops the concept of the project within the framework of the identified problem: formulates the goal, objectives, justifies the relevance, significance, expected results and possible areas of their application
		GC-2.3. Plans the necessary resources, including taking into account their replaceability
		GC-2.4. Develops a project implementation plan using planning tools
		GC-2.5. Monitors the progress of the project, corrects deviations, makes additional changes to the project implementation plan, clarifies the areas of responsibility of the project participants
GPC -7	Able to organize work and make professional decisions in emergency situations, in emergency situations, epidemics and in hotbeds of mass destruction	GPC-7.1. Owns an algorithm for providing first aid in emergency conditions, including in extreme conditions and foci of mass destruction
		GPC-7.2. Identifies conditions requiring emergency medical care, including clinical signs of sudden cessation of blood circulation and breathing

		GPC-7.3 .Provides emergency medical care to patients in conditions that threaten the lives of patients, including clinical death (stopping the vital functions of the human body (blood circulation and (or) breathing)
		GPC-7.4 Uses medicines and medical products in the provision of medical care in an emergency form
PC-3	Capable of developing, implementing and monitoring the effectiveness of individual rehabilitation programs	PC-3.1 Provides the provision of qualified medical care in their specialty using modern rehabilitation methods approved for use in medical practice
		PC-3.2 Draws up an individual rehabilitation plan for a patient with diseases of the maxillofacial region
		PC-3.3 Conducts monitoring and selection of drugs for the rehabilitation of the patient

### 3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course refers "Disaster Medicine" 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 - 2	Able to manage a project at all stages of its life cycle	-	History of medicine; Emergency Medicine; Anesthesiology, resuscitation, intensive care
GPC - 7	Able to organize work and make professional decisions in emergency situations, in emergency situations, epidemics and in hotbeds of mass destruction	-	Immunology; General surgery; Epidemiology; Topographic anatomy and operative surgery; Medical Elementology; Faculty Surgery; Emergency Medicine; Anesthesiology, resuscitation, intensive care

PC-3	Capable of developing, implementing and monitoring the effectiveness of individual rehabilitation programs	-	Immunology; General surgery; Topographic anatomy and operative surgery; medical rehabilitation; polyclinic therapy; infectious diseases; Pediatrics; obstetrics and gynecology
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#### 4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course "Disaster Medicine" is 3 credits (108 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	
			8
<i>Contact work, acc.</i>	<b>90</b>	<b>90</b>	
Including:			
Lectures (LC)	68	68	
Laboratory works (LW)			
Seminars (workshops/tutorials) (S)			
Self-studies	22	22	
Evaluation and assessment (exam/ passing/failing grade)	18	18	
<b>Course workload</b>	ac.h.	<b>108</b>	<b>108</b>
	credit	<b>3</b>	<b>3</b>

\* 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
<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.	LC, S
	<b>Topic 1.2.</b> Method of active surgical treatment of purulent wounds.	LC, S
	<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	LC, S
	<b>Topic 1.4.</b> The concept of surgical treatment of a purulent focus.	LC, S

	<b>Topic 1.5.</b> Differences in the surgical treatment of a purulent focus from PST wounds in traumatology. Preoperative management of patients	LC, S
	<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.	LC, S
<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.	LC, S
	<b>Topic 2.2.</b> Basic cardiopulmonary resuscitation and automated external defibrillation in adults. DBK algorithm with AED.	LC, S
	<b>Topic 2.3.</b> Types of circulatory arrest (asystole, electromechanical dissociation, ventricular fibrillation, pulseless ventricular tachycardia).	LC, S
	<b>Topic 2.4.</b> Methodology for conducting basic and advanced resuscitation by one and two providers (health workers) in adults and children.	LC, S
	<b>Topic 2.5.</b> Methods of temporary provision of patency of the upper respiratory tract.	LC, S
	<b>Module 3.</b> <b>R</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.
<b>Topic 3.2.</b> Autodermoplasty: types, technique, indications for use		LC, S
<b>Topic 3.3.</b> Wound plasty with local tissues: types, technique, indications for use.		LC, S
<b>Topic 3.4.</b> Flap classification		LC, S
<b>Topic 3.5.</b> Reconstructive and plastic surgery in the surgical treatment of deep bedsores.		LC, S
<b>Topic 3.6.</b> Microsurgical transplantation of tissue complexes: types, technique, indications for use.		LC, S
<b>Module 4.</b> Strong and poisonous substances.	<b>Topic 4.1.</b> Toxicology	LC, S
	<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).	LC, S
	<b>Topic 4.3.</b> Work in a playful way in a simulation environment according to	LC, S

	clinical scenarios using standard medical equipment and improvised means for immobilizing and transporting victims.	
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\* - 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)
Seminar	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)

## 7. RESOURCES RECOMMENDED FOR COURSE STUDY

*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>
- EL "University Library Online" <http://www.biblioclub.ru>
- EL Yurayt <http://www.biblio-online.ru>
- EL "Student Advisor" [www.studentlibrary.ru](http://www.studentlibrary.ru)
- EL "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".
2. The laboratory workshop (if any) on the course "Disaster Medicine".
3. The guidelines for writing a course paper / project (if any) on the course "Disaster Medicine".

4. ....

\* 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 – 2, GPC-7, PC-3) 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

Yu.S. Paskhalova

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position, department

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signature

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name and surname

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

Head Department of Disaster  
Medicine

V.A. Mitish

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name of the department

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signature

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name and surname

#### **HEAD OF HIGHER EDUCATIONAL PROGRAMME:**

Deputy Director of Institute of  
Medicine for Academic Affairs  
in the field of Dentistry

S.N. Razumova

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position, department

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signature

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name and surname