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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

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

COURSE SYLLABUS

Disaster Medicine

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

1. COURSE GOAL(s)

The goal of the course “Disaster Medicine” is to provide medical assistance to the affected population in emergency situations.

The main objectives of studying this discipline are:

- Teaching students the principles of organization and work in specialized clinics during military and peacetime emergencies;
- Preparing students enrolled in the specialty of Higher Professional Medical Education in Medicine for the practical performance of functional duties in specialized clinics and general medical institutions;
- Developing students' skills in providing medical assistance to the injured during the pre-hospital stage in emergency situations during military and peacetime.

2. REQUIREMENTS FOR LEARNING OUTCOMES

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

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

Competence code	Competence descriptor	Competence formation indicators (within this course)
GPC-6	Able to organize patient care, provide primary medical and sanitary assistance, ensure the organization of work and make professional decisions in emergency situations, epidemics, and mass casualty events	GPC-6.1. Has knowledge of the protocols for providing initial medical assistance in emergency situations, including under extreme conditions and in mass casualty events.
		GPC-6.2. Capable of identifying conditions requiring urgent medical assistance, including clinical signs of sudden cardiac and respiratory arrest.
		GPC-6.3. Able to provide emergency medical assistance to patients in conditions that pose a threat to their lives, including clinical death (the cessation of vital bodily functions such as blood circulation and/or breathing).
PC-1	Capable of providing urgent and emergency medical assistance to a patient	PC-1.1. Capable of assessing the condition of a patient requiring urgent or emergency medical assistance.
		PC-1.2. Capable of recognizing conditions that arise from sudden acute illnesses, exacerbations of chronic illnesses without obvious signs of patient's life-threatening conditions, and requiring urgent medical assistance.

Competence code	Competence descriptor	Competence formation indicators (within this course)
		PC-1.3. Capable of providing urgent medical assistance to patients with sudden acute illnesses, conditions, exacerbations of chronic illnesses without obvious signs of patient's life-threatening conditions.
		PC-1.4. Capable of recognizing conditions that pose a threat to the patient's life, including states of clinical death (the cessation of vital bodily functions such as blood circulation and/or breathing), and requiring emergency medical assistance.
		PC-1.5. Capable of providing emergency medical assistance to patients with conditions that pose a threat to their lives, including states of clinical death (the cessation of vital bodily functions such as blood circulation and/or breathing).
		PC-1.6. Capable of administering medications and medical devices in the provision of medical assistance in emergency or urgent situations.

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*
GPC-6	Able to organize patient care, provide primary medical and sanitary assistance, ensure the organization of work and make professional decisions in emergency situations, epidemics, and mass casualty events	Medical rehabilitation; Occupational diseases; Anesthesiology, resuscitation, intensive care; Telemedicine.	Specialized disciplines of the core part, specialized disciplines of the elective part
PC-1.	Capable of providing	Dermatovenereology;	Specialized

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
	urgent and emergency medical assistance to a patient	Neurology, medical genetics, neurosurgery; Faculty therapy; Faculty surgery; Obstetrics and gynecology; Otorhinolaryngology; Ophthalmology; Occupational diseases; Hospital therapy; Outpatient therapy; Hospital surgery, pediatric surgery; Pediatrics; Traumatology, orthopedics; Endocrinology; Anesthesiology, resuscitation, intensive care; Oncology, radiation therapy; Maxillofacial surgery; Reproductive health; Dentistry; Psychiatry, medical psychology; Topical Issues of Neonatology; Basics of pediatric nutrition; Practise; Surgical profile practice: assistant to a surgeon; Obstetric-gynecologic profile practice: assistant to a gynecologist; Therapeutic profile assistant: assistant to a therapist; General medical profile practice: assistant in an outpatient clinic; Obstetric-gynecologic profile practice: assistant to an obstetrician; Obstetric-gynecologic profile practice: assistant to an obstetrician.	disciplines of the core part, specialized disciplines of the elective part

* 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 academic 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	
			11	12
<i>Contact academic hours</i>		66	34	32
including:				
Lectures (LC)				
Lab work (LW)		66	34	32
Seminars (workshops/tutorials) (S)				
<i>Self-studies</i>		60	31	29
<i>Evaluation and assessment (exam/passing/failing grade)</i>		18	9	9
Course workload	academic hours	144	72	72
	credits	4	2	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
Section 1. Current state of development of purulent surgery in Russia and the world.	Topic 1.1. History of purulent surgery and its connection with surgical and therapeutic specialties.	LW
	Topic 1.2. Method of active surgical treatment of purulent wounds.	LW
	Topic 1.3. Features and principles of treating patients with wounds and surgical infections resulting from natural and technogenic disasters.	LW
	Topic 1.4. Concept of surgical treatment of purulent focus.	LW
	Topic 1.5. Differences between surgical treatment of purulent focus and PST wounds in traumatology. Preoperative management of patients.	LW
	Topic 1.6. Selection of a medication for local treatment depending on the phase of the wound process. Features of local treatment of burn wounds.	LW
Section 2. Provision of first aid, emergency and urgent medical care at the pre-hospital stage. Circulatory arrest. Basic cardiopulmonary resuscitation.	Topic 2.1. Professional standards and qualification requirements for doctors of various specialties in terms of providing emergency and urgent medical care.	LW
	Topic 2.2. Basic cardiopulmonary resuscitation and automated external defibrillation in adults. BLS and AED combined.	LW
	Topic 2.3. Types of circulatory arrest (asystole, electromechanical dissociation, ventricular fibrillation, pulseless ventricular tachycardia).	LW
	Topic 2.4. Methodology for performing basic and advanced resuscitation by one and two providers (medical personnel) in adults and	LW

Course module title	Course module contents (topics)	Academic activities types
	children.	
	Topic 2.5. Methods of temporarily ensuring the patency of the upper airways.	LW
	Topic 2.6. Work in the form of a game in a simulated environment with clinical scenarios using standard medical equipment and improvised means for immobilization and transportation.	LW
Section 3. Reconstructive and plastic operations in purulent surgery. Autodermoplasty. Wound plasty using local tissues.	Topic 3.1. Classification of reconstructive and plastic operations.	LW
	Topic 3.2. Wound plasty using local tissues: types, methods of implementation, indications for use.	LW
	Topic 3.3. Wound plasty using local tissues: types, methods of implementation, indications for use.	LW
	Topic 3.4. Classification of flaps.	LW
	Topic 3.5. Reconstructive and plastic operations in the surgical treatment of deep bedsores.	LW
	Topic 3.6. Microsurgical transplantation of tissue complexes: types, techniques, indications for use.	LW
Section 4. DM. General concepts of disaster medicine. Medical triage. Desmurgy (bandaging).	Topic 4.1. Problems and prospects of DM development. Types of assistance, medical triage of victims, medical evacuation of victims.	LW
	Topic 4.2. Medical and evacuation support of victims in emergency situations. Concept of desmurgy (bandaging).	LW
	Topic 4.3. Work in the form of a game in a simulated environment with clinical scenarios using standard medical equipment and improvised means to stop bleeding.	LW
Section 5. Potent and toxic substances.	Topic 5.1. Basic concepts of toxicology.	LW
	Topic 5.2. Organization of medical assistance to individuals affected by hazardous chemicals (in the focus and outside the focus of chemical contamination).	LW
Section 6. Pharmaceutical safety.	Topic 6.1. The concept of pharmaceutical and drug safety. Regulatory legal acts.	LW
	Topic 6.2. Features of medical waste disposal. Medical waste classes and sorting.	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)
Lecture	Lecture room equipped with a set of specialized furniture, a board (screen), and multimedia presentation equipment.	Microsoft products (OS, office suite)
Lab work	A class room for laboratory work, individual consultations, ongoing assessment, and midterm evaluation. The classroom is furnished with a set of specialized furniture and equipment.	Microsoft products (OS, office suite)
Seminar	A classroom for conducting seminar classes, individual consultations, ongoing assessment, and intermediate assessment, equipped with a set of specialized furniture and multimedia presentation equipment, manikins (3 in total), stretchers, bandages, tourniquets, etc.	Microsoft products (OS, office suite)
Simulation classroom	Simulation room for conducting classes, group and individual consultations, ongoing assessment, and midterm evaluation, furnished with manikins (6 in total), stretchers, a board (screen), and multimedia presentation equipment.	Microsoft products (operating systems, office suite applications) for technological and nuclear supervision

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

7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

1. Burakov A.A. Fundamentals of Life Safety: textbook / A.A. Burakov. - Electronic text data. - Moscow: GEOTAR-Media, 2023. - 176 p.
2. URL: https://lib.rudn.ru/MegaPro/UserEntry?Action=Link_FindDoc&id=508356&idb=0
3. Life Safety, Disaster Medicine: a textbook in 2 volumes. Vol. 1 / N.A. Arseniev, V.A. Blinov, A.N. Grebenyuk [and others.]; edited by I.A. Narkevich. - Electronic text data. - Moscow: GEOTAR-Media, 2023. - 768 p.
4. URL: https://lib.rudn.ru/MegaPro/UserEntry?Action=Link_FindDoc&id=508343&idb=0
5. Ibragimova Alfiya Nailovna.
6. Disaster Medicine: a manual for students majoring in "Pharmacy": in two parts. Part 1 / A.N. Ibragimova, S.L. Sokov. - Electronic text data. - Moscow: RUDN, 2020. - 49 p.

7. URL: https://lib.rudn.ru/MegaPro/UserEntry?Action=Link_FindDoc&id=491897&idb=0
8. Ibragimova Alfiya Nailovna.
9. Disaster Medicine: a manual for students majoring in "Pharmacy": in two parts. Part 2 / A.N. Ibragimova, S.L. Sokov. - Electronic text data. - Moscow: RUDN, 2020. - 42 p.
10. URL: https://lib.rudn.ru/MegaPro/UserEntry?Action=Link_FindDoc&id=491898&idb=0
11. Levchuk I.P.
12. Disaster Medicine: textbook / I.P. Levchuk, N.V. Tretyakov. - Moscow: GEOTAR-Media, 2021. - 288 p.
13. URL: https://lib.rudn.ru/MegaPro/UserEntry?Action=Link_FindDoc&id=508150&idb=0

Additional readings:

1. Educational and methodological manual on ECG diagnosis of emergency conditions in children. Author: Professor of the Emergency Conditions Department, V.I. Borodina // Portal of Continuous Education, module of the Emergency Conditions Department.
2. Protocols for emergency pediatrics. Authors: a team of the Emergency Conditions Department under the guidance of the Doctor of Medical Sciences, Borodina M.A. // Portal of Continuous Education, module of the Emergency Conditions Department.
3. Pediatric Advanced Life Support. Course Guide. Instructor's Guide, 2020. American Academy of Pediatrics. AmericanHeartAssociation (original).
4. Methodical Recommendations of the European Resuscitation Council on Basic and Advanced Life Support, 2015 (translated by the National Resuscitation Council, 2015, 2020).
5. European Resuscitation Council Guidelines 2020 || Edited by Jerry Nolan || Resuscitation. - Vol. 81. - No. 10. - 1219-1276 p. (original version).
6. Manual for Basic and Advanced Life Support, American Heart Association, 2020 (original version).
7. Instructor Manual for Basic and Advanced Life Support, American Heart Association, 2020 (original version).
8. Mueller Z. Practical Physician's Handbook // M. - MED PressInform, 2009 - 455 p.
9. www.aha.com - website of the American Heart Association ("Basic Life Support"; "Advanced Cardiovascular Life Support").
10. ERC Guideline, 2020, on "Basic Life Support"; "Advanced Cardiovascular Life Support." www.erc.org
11. Provider's Guide to Basic Cardiopulmonary Resuscitation and Automated External Defibrillation // translated from the Recommendations of the European Resuscitation Council, edited by the National Resuscitation Council, Moscow, 2015, 2020.
12. Koshelev A.A. Disaster 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.
13. Kavalersky G.M. Emergency Medicine. Disaster Surgery [Text] Textbook / G.M. Kavalersky, A.V. Garkavi. - Moscow: Medical Information Agency, 2015. - 376 p. - ISBN 978-5-9986-0235: 840.00. 54.58 - K 12 - 60 pcs.

Internet sources

1. RUDN Digital Library and third-party Digital Libraries accessible to university students based on concluded agreements:
 - RUDN Electronic Library – RUDN Digital Library <http://lib.rudn.ru/MegaPro/Web>
 - "University Online Library" Digital Library <http://www.biblioclub.ru>
 - Yurayt Digital Library <http://www.biblio-online.ru>
 - "Student Consultant" Digital Library www.studentlibrary.ru
 - "Lan" Digital Library <http://e.lanbook.com/>
 - "Troitsky Most" Digital Library

2. Databases and search engines:

- electronic collection of legal and regulatory-technical documentation <http://docs.cntd.ru/>
- Yandex search engine <https://www.yandex.ru/>
- Google search engine <https://www.google.ru/>
- SCOPUS abstract database <http://www.elsevierscience.ru/products/scopus/>

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 (GPC-6, PC-1) 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).

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