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ФИО: Ястребов Олег Александрович
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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

ECONOMICS

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 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

Competence code	Competence descriptor	Competence formation indicators (within this course)
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
GC-3	Able to organize and lead team work, developing a team strategy to achieve the set goal	GC-3.4 Organizes discussions on a given topic and discussion of team work results involving opponents of developed ideas;

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

GC -2	Able to manage a project at all stages of its life cycle		Socially significant projects in medicine;
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

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>	<i>68</i>	<i>68</i>	
Including:			
Lectures (LC)			
Laboratory works (LW)	<i>68</i>	<i>68</i>	
Seminars (workshops/tutorials) (S)			
Self-studies	<i>19</i>	<i>19</i>	
Evaluation and assessment (exam/ passing/failing grade)	<i>21</i>	<i>21</i>	
Course workload	ac.h.	108	108
	credit	3	3

* 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
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Module 1. The current state of development of purulent surgery in Russia and the world.	Topic 1.1. History of purulent surgery and its relationship 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 treatment of patients with wounds and surgical infections that occurred during natural and man-made disasters	LW
	Topic 1.4. The concept of surgical treatment of a purulent focus.	LW
	Topic 1.5. Differences in the surgical treatment of a purulent focus from PST wounds in traumatology. Preoperative management of patients	LW
	Topic 1.6. 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
Module 2. Providing first aid, emergency and emergency medical care at the prehospital stage. Stopping circulation. Basic cardiopulmonary resuscitation	Topic 2.1. Professional standards and qualification requirements for doctors of various specialties in terms of emergency and emergency medical care.	LW
	Topic 2.2. Basic cardiopulmonary resuscitation and automated external defibrillation in adults. DBK algorithm with AED.	LW
	Topic 2.3. Types of circulatory arrest (asystole, electromechanical dissociation, ventricular fibrillation, pulseless ventricular tachycardia).	LW
	Topic 2.4. Methodology for conducting basic and advanced resuscitation by one and two providers (health workers) in adults and children.	LW
	Topic 2.5. Methods of temporary provision of patency of the upper respiratory tract.	LW
Module 3. R reconstructive and plastic surgery in purulent surgery. Autodermoplasty. Wound plasty with local tissues.	Topic 3.1. Classification of reconstructive and plastic surgeries.	LW
	Topic 3.2. Autodermoplasty: types, technique, indications for use	LW
	Topic 3.3. Wound plasty with local tissues: types, technique, indications for use.	LW
	Topic 3.4. Flap classification	LW
	Topic 3.5. Reconstructive and plastic surgery in the surgical treatment of deep bedsores.	LW

	Topic 3.6. Microsurgical transplantation of tissue complexes: types, technique, indications for use.	LW
Module 4. Strong and poisonous substances.	Topic 4.1. Toxicology	LW
	Topic 4.2. Organization of medical care for those affected by emergency hazardous chemicals (in the focus, outside the focus of chemical damage).	LW
	Topic 4.3. 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
Module 5 Highly Active and Poisonous Substances.	Topic 5.1 Basic Concepts of Toxicology. Subject and objectives of toxicology. Classification of toxic substances. Basic mechanisms of toxic effects of chemicals on the human body. Routes of toxic substance entry into the body. Clinical manifestations of acute poisoning.	LW
	Topic 5.2 Organization of Medical Care for Victims Exposed to Hazardous Chemical Substances (in the source and outside the chemical contamination area) Characteristics of hazardous chemical substances. Features of exposure to toxic substances. Organization of medical care in the chemical contamination area and during medical evacuation. Basic measures for providing first aid and medical assistance to victims	LW
Module 6 Pharmaceutical Safety	Concepts of Pharmaceutical and Medicinal Safety. Regulatory Framework Concept of pharmaceutical safety. Basic principles of safe handling of medications. State regulation of circulation of medicinal products. Key regulatory documents governing pharmaceutical activities	LW
	Features of Medical Waste Disposal. Classes of Medical Waste and Sorting. Concept of medical waste. Classification of medical waste. Requirements for collection, storage, transportation, and disposal of medical waste. Rules for sorting waste in medical organizations. Sanitary and epidemiological requirements for handling medical waste	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)

7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

1. Levchuk I. P., Tretyakov N. V. Disaster Medicine: Textbook. - Moscow: GEOTAR-Media, 2021. - 288 c. URL: https://lib.rudn.ru/MegaPro/UserEntry?Action=Link_FindDoc&id=508150&idb=0
2. Burlakov A.A. *Fundamentals of Life Safety: Study Guide* / A.A. Burlakov. — Electronic text data. — Moscow: GEOTAR-Media, 2023. — 176 p. URL: https://lib.rudn.ru/MegaPro/UserEntry?Action=Link_FindDoc&id=508356&idb=0

Additional readings:

1. Methodological Guide on ECG Diagnosis of Emergency Conditions in Children. Author: Professor of the Department of Emergency Conditions V.I. Borodina // DO portal, department module
2. Protocols for Emergency Pediatrics. Authors: Department of Emergency Conditions team under the supervision of Dr. Sci. (Med.) M.A. Borodina // DO portal, department module
3. European Resuscitation Council Guidelines for Basic and Advanced Life Support, 2015 (translated by the National Resuscitation Council, 2015, 2020)
4. Koshelev A.A. *Disaster Medicine. Theory and Practice: Study Guide* / A.A. Koshelev. — 3rd ed., stereotype. — St. Petersburg: Lan, 2016. — 320 p.
5. Kavalersky G.M., Garkavi A.V. *Emergency Medicine. Disaster Surgery: Textbook* / G.M. Kavalersky, A.V. Garkavi. — Moscow: Medical Information Agency, 2015. — 376 p.
6. ERC Guidelines, 2020, on topics «Basic Life Support» (BLS); «Advanced Cardiovascular Life Support» (ACLS). <http://www.erc.org/>

Internet Resources:

1. RUDN Electronic Library and external EBLs that students have access to based on signed agreements
 - 1.1. RUDN Electronic Library — EBL RUDN <http://lib.rudn.ru/MegaPro/Web>
 - 1.2. Electronic Library «University Library Online» <http://www.biblioclub.ru/>
 - 1.3. Electronic Library «Yurait» <https://web9.urait.ru/>
 - 1.4. Electronic Library «Consultant Student» <https://www.studentlibrary.ru/>
2. Databases and Search Systems
 - 2.1. Electronic Fund of Legal and Regulatory Documentation <http://docs.cntd.ru/>
 - 2.2. Yandex Search Engine <http://www.yandex.ru/>
 - 2.3. Google Search Engine <http://www.google.ru/>
 - 2.4. SCOPUS Reference Database <https://www.scopus.com/>

* 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

position, department

Yu.S. Paskhalova

signature

name and surname

HEAD OF EDUCATIONAL DEPARTMENT:

Head Department of Disaster
Medicine

name of the department

V.A. Mitish

signature

name and surname

**HEAD OF HIGHER EDUCATIONAL
PROGRAMME:**

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

position, department

S.N. Razumova

signature

name and surname