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

General Medical Skills, Emergency Care
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 «General medical skills, emergency care» is toequip students with the knowledge and practical skills for the implementation of necessary actions and activities during the medical examination, according to the standards of the European Resuscitation Council emergency care, which are necessary in the work of a general practitioner.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) "General medical skills, emergency care" is aimed at the development of the following competences /competences in part: GPC-4, GPC-6, PC-1, PC-2.

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

Competence code	Competence descriptor	Competence formation indicators (within this course)
GPC-4	The ability to use medical devices prescribed by the order of medical care, and do examinations of the patient	GPC -4.1 Be able to use medical devices in according to the current procedures of medical care, clinical recommendations (treatment protocols) of medical care.
		GPC -4.3 Perform the technique of typical medical manipulations using medical devices according to medical care procedures
GPC-6	The ability to organize patient care, to do primary health care, to organize of work and to make professional	GPC -6.2 to identify conditions of emergency medical care, including clinical symptoms of a sudden cessation of blood circulation and breathing.

Competence code	Competence descriptor	Competence formation indicators (within this course)
	decisions in emergency conditions at the prehospital stage, in emergency situations, epidemics and in centers of mass destruction	GPC -6.3. to make emergency medical care to patients in clinical death (stopping the vital functions of the human body (blood circulation and (or) breathing)
PC-1	The ability to provide medical care to the severe patient	PC -1.1. The ability to assess the severe state of a patient
		PC -1.4. The ability to recognize emergency situations including clinical death (stopping the vital functions of the human body (blood circulation and / or respiration), requiring emergency medical care
		PC-1.5 The ability to perform emergency care to patients in emergency situations including clinical death (stopping the vital functions of the human body (blood circulation and/or respiration)
PC-2	The ability to examination of the patient to establish a diagnosis	PC 2.1 Conduct a questioning, examination, necessary examinations of the patient who came to the medical examination
		PC 2.2 The ability to make a preliminary diagnosis and draw up a plan for laboratory and instrumental examinations of the patient

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course refers to the core/variable/<u>elective</u>* 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-4	The ability to use medical devices prescribed by the order of medical care, and do examinations of the patient	Introduction to internal diseases, internal diseases	State final certification, Primary accreditation
GPC-6	The ability to organize patient care, to do primary health care, to organize of work and to make professional decisions in emergency conditions at the prehospital stage, in emergency situations, epidemics and in centers of mass destruction	Introduction to internal diseases, internal diseases	State final certification, Primary accreditation
PC-1	The ability to provide medical care to the severe patient	Introduction to internal diseases, internal diseases	State final certification, Primary accreditation
PC-2	The ability to examination of the patient to establish a diagnosis	Introduction to internal diseases, internal diseases	State final certification, Primary accreditation

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course "General Medical Skills, Emergency Care" is 7 credits (252 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	
		2	3
Contact academic hours	**170**	**85**	**85**
Including:			
Lectures (LC)	**34**	**17**	**17**
Lab work (LW)	**136**	**68**	**68**
Seminars (workshops/tutorials) (S)	-	-	-
Self-studies	*46*	*14*	*32*
Evaluation and assessment (exam/passing/failing grade)	*36*	*9*	*27*
Course workload — academic hours	**252**	**108**	**144**
Course workload — credits	**7**	**3**	**4**

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities types
Module 1 Emergency care for sudden death	Topic 1.1 Emergency care for sudden death in adults without AED	LC, LW
	Topic 1.2 Emergency care for resuscitation in the case of diagnosing a rhythm that can be defibrillated and not.	LC, LW
	Topic 1.3 Emergency care for sudden death in children	LC, LW
Section 2 Physical examination of patients with interpretation of the results and filling in the necessary documentation	Topic 2.1 Physical examination of patient's respiratory and cardiovascular system	LC, LW
	Topic 2.2 Auscultation of the respiratory sounds. Interpretation of identified auscultatory syndromes	LC, LW
	Topic 2.3 Auscultation of sounds symptoms of the heart. Interpretation of identified auscultatory syndromes	LC, LW
Section 3 Emergency care	Topic 3.1 Emergency care for acute coronary syndrome	LC, LW
	Topic 3.2 Emergency care for bleeding	LC, LW

Course module title	Course module contents (topics)	Academic activities types
	Topic 3.3 Emergency care for hypoglycemia	LC, LW
	Topic 3.4 Emergency care for hypertensive crisis	LC, LW
	Topic 3.5 Emergency care for anaphylaxis	
	Topic 3.6 Emergency care for pulmonary embolism	LC, LW
	Topic 3.7 Emergency care for acute cerebrovascular stroke	LC, LW
	Topic 3.8 Emergency care for a foreign body	LC, LW
	Topic 3.9 Emergency care for pneumothorax	LC, LW
Section 4 Intravenous injection	Topic 4.1 Intravenous injection Ascorbic acid injection 5% 1 ml, Furosemide 1% 2 ml, Tranexamic acid injection 5% 2 ml	LC, LW
Section 5 Carrying out activities to prevent and promote a healthy lifestyle	Topic 5.1 Hand hygiene	LC, LW
	Topic 5.2 Physical examination, palpation, percussion, auscultation of the lungs.	LC, LW
	Topic 5.3 Blood pressure measurement	LC, LW
Section 6 Communication skills	Topic 6.1 Calgary - Cambridge model of communication	LC, LW

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	Epson multimedia projector, Lenovo laptop, Software: Microsoft products (OS, office suite, including MS Office/Office 365, Teams, Skype) Plasma panel Led LG	Defibrillator Power Heart AED, Medical couch, Dropper stand, rolling tables, baby changing table, Functional medical bed KMFT-MSK, /child manikin for training basic CPR, Simulator for training CPR BT-CEAB2, MATIman patient simulator, SN.253 K360034 + DELL laptop, NRSP-02 emergency medical positioning, Alex Simulator, Yellow medical container, ECG machine, Black stretcher
Lecture	Lenovo laptop, Software: Microsoft products (OS, office suite, including MS Office/Office 365, Plasma panel Led LG	Plasma panel Led LG Patient's care simulator NS SB 20144, VirtuSHOK simulator, NS.LF03968U, Bladder Catheterization Trainer LT60155, Simulator for training probe feeding KKMW8.11-386, Simulator for training intramuscular injections LM, Simulator for training intravenous injection and venopuncture LT 00290, Defibrillator Power Heart AED, LM026M Neonatal Care Training Baby Trainer, Axeon ECG,
Self-studies	laptop – Lenovo	Defibrillator Power Heart AED, Simulator for training CPR BT-CEAB2, Yellow medical container, Medical cabinet, Movable table, Desk desk

7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

2. ESC 2021 recommendations.

3. ESC 2017 recommendations.

4. Recommendations AAC, AAC, 2016

5. Materials of the Federal methodological accreditation center: a list of practical skills in simulated conditions. https://fmza.ru*Additional readings:*

Electronic full-text materials:

Internet (based) sources

 1. Electronic libraries with access for RUDN students:

-Electronic library network of RUDN – ELN RUDN http://lib.rudn.ru/MegaPro/Web

- ELN «University Library online» http://www.biblioclub.ru

- ELN Urait http://www.biblio-online.ru

- ELN «Student Advisor» www.studentlibrary.ru

- ELN «Lan» http://e.lanbook.com/

 2. Databases and search engines:

- electronic fund of legal and regulatory and technical documentation http://docs.cntd.ru/

- search system Yandex https://www.yandex.ru/

- search system Google https://www.google.ru/

- abstract database SCOPUS http://www.elsevierscience.ru/products/scopus/

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

1. The set of lectures on the course "General Medical Skills, Emergency Care"

* 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-4, GPC-6, PC-1, PC-2) 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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