


Ministry of science and high education RF Ulyanovsk State University	Form	
F-Educational plan of the Extreme medicine		

**APPROVED**  
 by the Academic Board of the Institute  
 for Medicine, Ecology and Physical Education at  
 Ulyanovsk State University  
 May 16<sup>th</sup>, 2024г. Record №9/260  
 Chairperson V.V. Mashin  
surname, initials



### EDUCATIONAL PLAN

Discipline	Extreme medicine
Faculty	Medical faculty of T.Z. Biktimirov
Name of department	Department of hospital surgery, anesthesiology, reanimatology, urology, traumatology, orthopedics
Course	3

Direction (specialty) 31.05.01 General medicine

the code of the direction (specialty), full name

Orientation (profile/specialty) not provided

full name

Form of training \_\_\_\_\_ full-time \_\_\_\_\_

full-time, part-time, part-time (specify only those that are being implemented)

Date of introduction into the academic process at Ulyanovsk State University 01.09.2024

Revised at the Department meeting, Record No. \_\_\_\_\_ of \_\_\_\_\_ «\_\_\_\_\_» 20\_\_

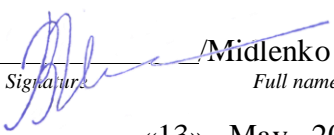

Revised at the Department meeting, Record No. \_\_\_\_\_ of \_\_\_\_\_ «\_\_\_\_\_» 20\_\_


Revised at the Department meeting, Record No. \_\_\_\_\_ of \_\_\_\_\_ «\_\_\_\_\_» 20\_\_

Revised at the Department meeting, Record No. \_\_\_\_\_ of \_\_\_\_\_ «\_\_\_\_\_» 20\_\_

Information about developers:

Full name	Abbreviation of Department	Academic, degree, title
Belyi Lev E.	of hospital surgery, anesthesiology, reanimatology, urology, traumatology, orthopedics	Professor, MD, Associate Professor

Agreed	Agreed
Head of department, developing discipline	Head of the graduating Department
 <small>Signature</small> / Midlenko V.I. / <small>Full name</small> «13» May 2024 г.	 <small>Signature</small> / Vize-Khripunova M.A. / <small>Full name</small> «13» May 2024 г.

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### 1. OBJECTIVES AND AIM OF DISCIPLINE:

**Objectives of the discipline:** to prepare graduates to work on the provision of medical assistance at the stages of medical evacuation in the elimination of medical and sanitary consequences of natural and man-made emergencies in conditions of a lack of time, diagnostic and therapeutic capabilities.


**The aim of mastering the discipline:** to prepare graduates of medical universities for practical performance of functional duties in special health units, formations and institutions of the civil defense medical service and the disaster medicine service.

### 2. PLACE OF THE SUBJECT IN THE STRUCTURE OF GEP:

Discipline «Extreme medicine» to professional cycle GEP HE of specialty «General medicine». The student must master the content of academic disciplines before starting to study it: "Anatomy", "Biochemistry", "Hygiene", "Microbiology and Virology" and have an idea of what areas of their future professional activities, he will be able to use this knowledge in the framework of competences, due to the specifics of its future work.

### 3. LIST OF PLANNED RESULTS OF TRAINING IN THE DISCIPLINE (MODULE), CORRELATED WITH THE PLANNED RESULTS OF MASTERING THE MAIN PROFESSIONAL EDUCATIONAL PROGRAM

Code and name of the competence being implemented	A list of intended learning outcomes on discipline (module), correlated with the indicators of achievement of competencies
UC-3 Able to organize and manage the work of the team, developing a team strategy to achieve the goal	<p><b>Know:</b> - peculiarities of organization of medical evacuation measures;</p> <p>- the basics of medical care of the population during liquidation of consequences of emergency situations, radiological and chemical nature;</p> <p>-the organization of medical care of the population during liquidation of consequences of emergency situations of natural, technogenic, traffic, explosive or flammable nature;</p> <p>- the basics of organizing and conducting sanitary and anti-epidemic (preventive) actions in emergency situations in peacetime and wartime; - the content of activities medical supplies medical units and establishments in various modes of operation of service of medicine of accidents;</p> <p><b>To be able:</b></p> <p>- to identify the amount and type of medical care depending on the medical situation;</p> <p>- to solve the practical problem of calculating the allocation of necessary forces and means of disaster medical service to provide emergency medical assistance to affected in emergencies;</p>

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	<ul style="list-style-type: none"> <li>- to determine the need for medical equipment to institutions and groups intended for the health of the population and make up application to receive it;</li> <li><b>Own:</b> - methods of providing first, pre-medical and first aid to victims in emergency situations;</li> <li>- methods and methods of evacuating victims in emergency situations;</li> <li>- methods and methods of using individual protective equipment;</li> <li>- methods of applying antidote and radioprotective means in the scope of first aid;</li> <li>- algorithm for monitoring the implementation of safety rules for medical personnel and patients.</li> </ul>
<b>PC-1</b> Readiness to participate in the provision of emergency medical care in conditions requiring urgent medical intervention	<p><b>Know:</b> the basics of providing various types of medical care to the affected population;</p> <p><b>Be able to:</b> provide first medical, pre-medical and first aid to the affected population in wartime and emergency situations of natural and man-made nature;</p> <p><b>Own:</b> the algorithms perform basic medical-evacuation actions at the stages of medical evacuation in emergency situations in peacetime and in war and war conflicts</p>

#### 4. GENERAL LABOR INTENSITY OF THE DISCIPLINE

##### 4.1. The volume of the discipline in credit units (total): 2

##### 4.2. The amount of discipline at types of training (in hours):

Type of academic work	Number of hours 72	
	Total according to the plan	including semesters: 5
1	2	3
Contact work of students with the teacher in accordance with up	36	36
Classroom classes:	36	36
lectures	-	-
Seminars and practical classes	36	36
laboratory work, workshops	-	-
Self-study	36	36
Form of current knowledge control and	Testing, abstract	Testing, abstract


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control's self-study control:		
Course work	-	-
Types of intermediate certification (exam, credit)	-	-
Total hours in the discipline	72	72

**4.3. Content of the discipline (module.) Distribution of hours by subject and type of study work:** Number of hours – 72 h

The form of training: full time

Names of sections and topics	Total	Types of training sessions					Form of current knowledge control
		Classroom classes			interactive Activities asset in any other form	Independent editor Independent work	
		Lectures	Practical classes, seminars	Laboratory work, workshops			
1	2	3	4	5	6	7	
Modern means of armed struggle. Special health care units.	12	-	6	-	1	6	Testing, abstract
Medical protection.	12	-	6	-	1	6	Testing, abstract
Organization of medical evacuation support of the population in emergency situations. Medical evacuation.	12	-	6	-	1	6	Testing, abstract
Medical and sanitary support in the aftermath of natural disasters.	12	-	6	-	1	6	Testing, abstract
Medical and sanitary provision in the event of liquidation of consequences of emergency	12	-	6	-	1	6	Testing, abstract

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situations of a technogenic (anthropogenic) nature.							
Life-threatening conditions in disaster surgery. Diagnostics, emergency care at the stages of medical evacuation	12	-	6	-	1	6	Testing, abstract
Total	72	-	36	-	6	36	

## 5. COURSE CONTENT

### **Modern means of armed struggle. Special health care units.**

Modern means of armed struggle. High-precision weapons, cluster and volume-detonating ammunition. Nuclear weapon. The story of the creation and first use. Striking factors of nuclear weapons. Biological weapon. Characteristics of biological lesions. Organization and conduct of isolation and restriction measures. Non-lethal weapon. Definition and classification of non-lethal weapons and special means. Combined destruction of various types of weapons.

Definition and measures of medical protection. Medical protective equipment and its use. Standard medical personal protective equipment.

**Medical protection.** Medical and psychological protection of the population and rescuers and emergencies.

Content and tasks. Traumatic factors of emergencies. Features of the development of mental reactions in the affected, medical personnel and rescuers in emergency situations.

Basic methods of psychological protection and rehabilitation of the population and persons involved in their rescue.

**Organization of medical evacuation support of the population in emergency situations. Medical evacuation.**


Conditions that determine the system of medical evacuation support. The essence of the system of medical evacuation support. Basic requirements and concept scheme of medical evacuation support. Stages of medical evacuation. Types and volumes of medical care. Features of medical sorting of the affected (sick) in emergency situations. Features of medical evacuation of the affected (sick) in emergency situations.

### **Medical and sanitary support in the aftermath of natural disasters.**

Medical and sanitary support in the aftermath of earthquakes: characteristics, main measures for elimination, organization of first aid. Syndromes of mechanical destruction of soft tissues. Long-term compression syndrome. Endogenous intoxication and acute kidney injury with mechanical destruction.

The medical care in the aftermath of the floods: characteristics, basic emergency response measures, organization of first medical aid.

Medical and sanitary support in the aftermath of snow avalanches: characteristics, main measures for elimination, organization of first aid.

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**Medical and sanitary provision in the event of liquidation of consequences of emergency situations of a technogenic (anthropogenic) nature.**

Medical and sanitary support in the liquidation of the consequences of emergency situations-fires: description of the basic emergency response measures, organization of first medical aid. Burns. Burn disease. Medical sorting of burn victims. Providing assistance at the stages of medical evacuation.

Medical and sanitary support in the liquidation of the consequences of emergency situations-radiation and chemical accidents: characteristics, main measures for elimination, organization of first aid.

Medical and sanitary support in the event of terrorist attacks.

**Life-threatening condition in surgery disasters. Diagnostics, emergency care at the stages of medical evacuation.**

Characteristics of threatening conditions in the surgery of catastrophes. Significance of the syndrome approach in sorting and diagnostics on medical evacuation taps.

Causes, pathogenesis, methods of prevention of such conditions as shock, acute respiratory failure and coma: their reliable signs, determining the severity, methods of diagnosis in conditions of limited time and technical means. Small ejection syndrome as a leading cause of critical conditions. Criteria for assessing the severity and determining the prognosis for critical conditions. The principles of shock therapy. Tasks and opportunities of medical evacuation stages when providing assistance to the injured. Features of diagnostics and correction of life-threatening conditions in children.

Bleedings. Compensation of blood loss during the elimination of consequences of disasters.

Classification of bleeding, types of damage to blood vessels. Determination of the volume of blood loss in conditions of limited time and technical capabilities. Types of blood substitutes. Principles of blood replacement therapy in acute blood loss, expediency of blood reinfusion, indications for direct blood transfusion. Possible complications of hemotransfusion (including massive blood transfusion syndrome), methods of their prevention and treatment. DIC-syndrome in acute blood loss. Measures for its prevention and treatment.


Toxic complications and their causes in restoring peripheral blood flow in the extremities after prolonged ischemia.

Classification of wounds, features of gunshot, smashed wounds. Areas of the wound canal in case of gunshot injuries, wound ballistics. Mechanical, physical, and chemical treatment of wounds. Indications for wound drainage and methods of drainage. Features of treatment of wounds of the face, hand, foot. Special tactics in the presence of extensive wounds, significant soft tissue defects.

**6. TOPICS OF PRACTICAL CLASSES AND SEMINARS (FOR DISCUSSING AND SELF-PREPARED OF STUDENTS)**

**Topic 1. Modern means of armed struggle. Special health care units.**

1. Modern means of armed struggle.
2. High-precision weapons, cluster and volume-detonating ammunition.
3. Nuclear weapon. The story of the creation and first use. Striking factors of nuclear weapons.
4. Biological weapon. Characteristics of biological lesions.
5. Organization and conduct of isolation and restriction measures.
6. Non-lethal weapon. Definition and classification of non-lethal weapons and special means.

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Combined destruction of various types of weapons.

**Topic 2. Medical protection.**

1. Definition and measures of medical protection.
2. Medical protective equipment and its use. Standard medical personal protective equipment.
3. Medical and psychological protection of the population and rescuers and emergencies.
4. Content and tasks. Traumatic factors of emergencies. Features of the development of mental reactions in the affected, medical personnel and rescuers in emergency situations.
5. Basic methods of psychological protection and rehabilitation of the population and persons involved in their rescue.

**Topic 3. Organization of medical evacuation support of the population in emergency situations. Medical evacuation.**

1. Conditions that determine the system of medical evacuation support.
2. The essence of the system of medical evacuation support. Basic requirements and concept scheme of medical evacuation support. Stages of medical evacuation.
3. Types and volumes of medical care. Features of medical sorting of the affected (sick) in emergency situations.
4. Features of medical evacuation of the affected (sick) in emergency situations.

**Topic 4. Medical and sanitary support in the aftermath of natural disasters.**


1. Medical and sanitary support in the aftermath of earthquakes: characteristics, main measures for elimination, organization of first aid.
2. Syndromes of mechanical destruction of soft tissues.
3. Long-term compression syndrome.
4. Endogenous intoxication and acute kidney injury with mechanical destruction.
5. The medical care in the aftermath of the floods: characteristics, basic emergency response measures, organization of first medical aid.
6. Medical and sanitary support in the aftermath of snow avalanches: characteristics, main measures for elimination, organization of first aid.

**Topic 5. Medical and sanitary provision in the event of liquidation of consequences of emergency situations of a technogenic (anthropogenic) nature.**

1. Medical and sanitary support in the liquidation of the consequences of emergency situations-fires: description of the basic emergency response measures, organization of first medical aid.
2. Burns. Burn disease. Medical sorting of burn victims. Providing assistance at the stages of medical evacuation.
3. Medical and sanitary support in the liquidation of the consequences of emergency situations-radiation and chemical accidents: characteristics, main measures for elimination, organization of first aid.
4. Medical and sanitary support in the event of terrorist attacks.

**Topic 6. Life-threatening condition in surgery disasters. Diagnostics, emergency care at the stages of medical evacuation.**

1. Characteristics of threatening conditions in the surgery of catastrophes. Significance of the syndrome approach in sorting and diagnostics on medical evacuation taps.
2. Causes, pathogenesis, methods of prevention of such conditions as shock, acute respiratory failure and coma: their reliable signs, determining the severity, methods of diagnosis in conditions of limited time and technical means.
3. Small ejection syndrome as a leading cause of critical conditions. Criteria for assessing the severity and determining the prognosis for critical conditions.
4. The principles of shock therapy. Tasks and opportunities of medical evacuation stages when providing assistance to the injured. Features of diagnostics and correction of life-

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threatening conditions in children.

5. Bleedings. Compensation of blood loss during the elimination of consequences of disasters. Classification of bleeding, types of damage to blood vessels. Determination of the volume of blood loss in conditions of limited time and technical capabilities. Types of blood substitutes. Principles of blood replacement therapy in acute blood loss, expediency of blood reinfusion, indications for direct blood transfusion. Possible complications of hemotransfusion (including massive blood transfusion syndrome), methods of their prevention and treatment. DIC-syndrome in acute blood loss. Measures for its prevention and treatment.

6. Toxic complications and their causes in restoring peripheral blood flow in the extremities after prolonged ischemia.

7. Classification of wounds, features of gunshot, smashed wounds. Areas of the wound canal in case of gunshot injuries, wound ballistics. Mechanical, physical, and chemical treatment of wounds. Indications for wound drainage and methods of drainage. Features of treatment of wounds of the face, hand, foot. Special tactics in the presence of extensive wounds, significant soft tissue defects.

## **7. LABORATORY WORK, WORKSHOPS**

*Not included in the curriculum*


## **8. TOPICS OF COURSEWORK, TESTS, AND RESEARCH PAPERS**

*Coursework and tests are not provided for in the curriculum.*

### ***Topic of abstracts***


1. Conditions that determine the system of medical evacuation support. The essence of the system of medical evacuation support.
2. Stages of medical evacuation.
3. Types and volumes of medical care.
4. Features of medical sorting of the affected (sick) in emergency situations.
5. Features of medical evacuation of the affected (sick) in emergency situations.
6. Medical and sanitary support in the aftermath of earthquakes. Syndromes of mechanical destruction of soft tissues. Long-term compression syndrome.
7. The medical care in the aftermath of the floods: characteristics, basic emergency response measures, organization of first medical aid.
8. Medical and sanitary support in the aftermath of snow avalanches: characteristics, main measures for elimination, organization of first aid.
9. Medical and sanitary support in the liquidation of the consequences of emergency situations-fires.
10. Medical and sanitary support in the liquidation of the consequences of emergency situations –radiation and chemical accidents.
11. Medical and sanitary support in the event of terrorist attacks.
12. Bleedings. Compensation of blood loss during the elimination of consequences of disasters.
13. Toxic complications and their causes in restoring peripheral blood flow in the extremities after prolonged ischemia.



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## 9. LIST OF QUESTIONS TO BE TAKEN INTO ACCOUNT

1. Modern means of armed struggle. High-precision weapons, cluster and volume-detonating ammunition.
2. Nuclear weapon. The story of the creation and first use. Striking factors of nuclear weapons.
3. Biological weapon. Characteristics of biological lesions.
4. Organization and conduct of isolation and restriction measures.
5. Non-lethal weapon. Definition and classification of non-lethal weapons and special means.
6. Combined destruction of various types of weapons.
7. Medical protective equipment and its use. Standard medical personal protective equipment.
8. Medical protection. Medical and psychological protection of the population and rescuers and emergencies.
9. Traumatic factors of emergencies. Features of the development of mental reactions in the affected, medical personnel and rescuers in emergency situations.
10. Basic methods of psychological protection and rehabilitation of the population and persons involved in their rescue.
11. Organization of medical evacuation support of the population in emergency situations. Medical evacuation.
12. Conditions that determine the system of medical evacuation support.
13. The essence of the system of medical evacuation support. Basic requirements and concept scheme of medical evacuation support. Stages of medical evacuation.
14. Types and volumes of medical care. Features of medical sorting of the affected (sick) in emergency situations. Features of medical evacuation of the affected (sick) in emergency situations.
15. Medical and sanitary support in the aftermath of natural disasters.
16. Medical and sanitary support in the aftermath of earthquakes: characteristics, main measures for elimination, organization of first aid. Syndromes of mechanical destruction of soft tissues.
17. Long-term compression syndrome.
18. Endogenous intoxication and acute kidney injury with mechanical destruction.
19. The medical care in the aftermath of the floods: characteristics, basic emergency response measures, organization of first medical aid.
20. Medical and sanitary support in the aftermath of snow avalanches: characteristics, main measures for elimination, organization of first aid.
21. Medical and sanitary provision in the event of liquidation of consequences of emergency situations of a technogenic (anthropogenic) nature.
22. Medical and sanitary support in the liquidation of the consequences of emergency situations-fires: description of the basic emergency response measures, organization of first medical aid.
23. Burns. Burn disease. Medical sorting of burn victims. Providing assistance at the stages of medical evacuation.


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24. Medical and sanitary support in the liquidation of the consequences of emergency situations-radiation and chemical accidents: characteristics, main measures for elimination, organization of first aid.
25. Medical and sanitary support in the event of terrorist attacks.
26. Life-threatening condition in surgery disasters. Diagnostics, emergency care at the stages of medical evacuation.
27. Characteristics of threatening conditions in the surgery of catastrophes. Significance of the syndrome approach in sorting and diagnostics on medical evacuation taps.
28. Causes, pathogenesis, methods of prevention of such conditions as shock
29. The principles of shock therapy.
30. Tasks and opportunities of medical evacuation stages when providing assistance to the injured. Features of diagnostics and correction of life-threatening conditions in children.
31. Bleedings. Compensation of blood loss during the elimination of consequences of disasters. Classification of bleeding, types of damage to blood vessels.
32. Determination of the volume of blood loss in conditions of limited time and technical capabilities. Types of blood substitutes. Principles of blood replacement therapy in acute blood loss, expediency of blood reinfusion, indications for direct blood transfusion. Possible complications of hemotransfusion (including massive blood transfusion syndrome), methods of their prevention and treatment. DIC-syndrome in acute blood loss. Measures for its prevention and treatment.
33. Toxic complications and their causes in restoring peripheral blood flow in the extremities after prolonged ischemia.
34. Classification of wounds, features of gunshot, smashed wounds.
35. Areas of the wound canal in case of gunshot injuries, wound ballistics. Mechanical, physical, and chemical treatment of wounds.


## 10. SELF-STUDY WORK OF STUDENTS

Full-time training

Names of sections and topics	Type of self-study work	Volume in hours	form of control
Modern means of armed struggle. Special health care units.	study of educational material, abstract, preparation for the exam	6	Checking the completeness of the training material on the topic, the correctness of answers to test tasks on the topic, checking the abstracts
Medical protection.	study of educational material, abstract, preparation for the exam	6	Checking the completeness of educational

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			material on the topic, correctness of answers to test tasks on the topic, checking of abstracts
Organization of medical evacuation support of the population in emergency situations. Medical evacuation.	study of educational material, abstract, preparation for the exam	6	Checking the completeness of the training material on the topic, the correctness of answers to test tasks on the topic, checking the abstracts
Medical and sanitary support in the aftermath of natural disasters.	elaboration of educational material, abstract, preparation for the exam	6	Checking the completeness of the training material on the topic, the correctness of answers to test tasks on the topic, checking the abstracts
Medical and sanitary provision in the event of liquidation of consequences of emergency situations of a technogenic (anthropogenic) nature.	study of educational material, abstract, preparation for the exam	6	Checking the completeness of the training material on the topic, the correctness of answers to test tasks on the topic, checking the abstracts
Life-threatening conditions in disaster surgery. Diagnostics, emergency care at the stages of medical evacuation	study of educational material, abstract, preparation for the exam	6	Checking the completeness of the training material on the topic, the correctness of answers to test tasks on the topic, checking the abstracts

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## 11. EDUCATIONAL-METHODICAL AND INFORMATION SUPPORT OF DISCIPLINE

### a) List of recommended literature

#### Core reading:

1. Левчук, И. П. Disaster Medicine = Медицина катастроф: учебник на английском и русском языках / И. П. Левчук, А. П. Назаров, Ю. А. Назарова. - Москва: ГЭОТАР-Медиа, 2021. - 240 с. - ISBN 978-5-9704-6074-0. - Текст: электронный // ЭБС "Консультант студента": [сайт]. – URL: <https://www.studentlibrary.ru/book/ISBN9785970460740.html>
2. Levchuk, I. P. Life Safety in Medicine: textbook / I. P. Levchuk, A. P. Nazarov, M. V. Kostyuchenko. - Moscow: GEOTAR-Media, 2021. - 112 p. - 112 с. - ISBN 978-5-9704-5998-0. - Текст: электронный // ЭБС "Консультант студента": [сайт]. - URL: <https://www.studentlibrary.ru/book/ISBN9785970459980.html>

#### Supplementary reading:

1. Garkavi, A. V. Disaster medicine / Garkavi A. V., Kavalersky G. M. - Москва: ГЭОТАР-Медиа, 2019. - 304 с. - ISBN 978-5-9704-5258-5. - Текст: электронный // ЭБС "Консультант студента": [сайт]. – URL: <https://www.studentlibrary.ru/book/ISBN9785970452585.html>
2. Levchuk, I. P. First Aid in Case of Accidents and Emergency Situations: course book / I. P. Levchuk, M. V. Kostyuchenko, A. P. Nazarov - Москва: ГЭОТАР-Медиа, 2017. - 120 с. - ISBN 978-5-9704-4230-2. - Текст: электронный // ЭБС "Консультант студента": [сайт]. – URL: <https://www.studentlibrary.ru/book/ISBN9785970442302.html>
3. Мамурбаев А. А. Foundations of occupational medicine / А. А. Мамурбаев. - Актобе: ЗКМУ, 2017. - 479 с. - Текст : электронный // ЭБС "Букап" : [сайт]. - URL: <https://www.books-up.ru/ru/book/foundations-of-occupational-medicine-10947813/>

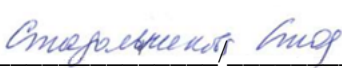
### b) Educational and methodical literature

**Belyi L.E.** Methodical guidelines for self-study work of students in the discipline «Extreme medicine» for specialty 31.05.01 «General medicine» / L. E. Belyi; Ulyanovsk State University, The Institute of Medicine, Ecology and Physical Culture. - Ulyanovsk : UISU, 2022. - Неопубликованный ресурс; На англ. яз. - URL: <http://lib.ulsu.ru/MegaPro/Download/MObject/11549>. - Режим доступа: ЭБС УЛГУ. - Текст : электронный.

AGREED:

Leading specialist


26.04.2024.

\_\_\_\_\_ /  / \_\_\_\_\_  
The position of the worker scientific library

Full name

signature

data

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*Профессиональные базы данных, информационно-справочные системы*

**1. Электронно-библиотечные системы:**

1.1. Цифровой образовательный ресурс IPRsmart : электронно-библиотечная система : сайт / ООО Компания «Ай Пи Ар Медиа». - Саратов, [2024]. – URL: <http://www.iprbookshop.ru>. – Режим доступа: для зарегистрир. пользователей. - Текст : электронный.

1.2. Образовательная платформа ЮРАЙТ : образовательный ресурс, электронная библиотека : сайт / ООО Электронное издательство «ЮРАЙТ». – Москва, [2024]. - URL: <https://urait.ru>. – Режим доступа: для зарегистрир. пользователей. - Текст : электронный.

1.3. База данных «Электронная библиотека технического ВУЗа (ЭБС «Консультант студента») : электронно-библиотечная система : сайт / ООО «Политехресурс». – Москва, [2024]. – URL: <https://www.studentlibrary.ru/cgi-bin/mb4x>. – Режим доступа: для зарегистрир. пользователей. – Текст : электронный.

1.4. Консультант врача. Электронная медицинская библиотека : база данных : сайт / ООО «Высшая школа организации и управления здравоохранением-Комплексный медицинский консалтинг». – Москва, [2024]. – URL: <https://www.rosmedlib.ru>. – Режим доступа: для зарегистрир. пользователей. – Текст : электронный.

1.5. Большая медицинская библиотека : электронно-библиотечная система : сайт / ООО «Букап». – Томск, [2024]. – URL: <https://www.books-up.ru/ru/library/>. – Режим доступа: для зарегистрир. пользователей. – Текст : электронный.

1.6. ЭБС Лань : электронно-библиотечная система : сайт / ООО ЭБС «Лань». – Санкт-Петербург, [2024]. – URL: <https://e.lanbook.com>. – Режим доступа: для зарегистрир. пользователей. – Текст : электронный.

1.7. ЭБС Znanium.com : электронно-библиотечная система : сайт / ООО «Знаниум». - Москва, [2024]. - URL: <http://znanium.com>. – Режим доступа : для зарегистрир. пользователей. - Текст : электронный.

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Инженер ведущий



Щуренко Ю.В.

2024

Ministry of science and high education RF Ulyanovsk State University	Form	
F-Educational plan of the Extreme medicine		

## 12. SPECIAL CONDITIONS FOR STUDENTS WITH DISABILITIES

Training students with disabilities is carried out taking into account the peculiarities of psychophysical development, individual capabilities and health of such students. Education of students with disabilities can be organized in conjunction with other students, and separately. If necessary, students from among persons with disabilities (at the request of the student) may be offered one of the following options for the perception of information, taking into account their individual psychophysical characteristics:

- for persons with visual impairment: in printed form in large print; in the form of an electronic document; in the form of an audio file (translation of educational materials into audio format); in printed form in Braille; individual consultations with the involvement of a tiflosurdoperevodchika; individual tasks and consultations.
- for persons with hearing impairment: in printed form; in the form of an electronic document; video materials with subtitles; individual consultations with the assistance of a sign language interpreter; individual tasks and consultations.
- for persons with musculoskeletal disorders: in printed form; in the form of an electronic document; in the form of an audio file; individual tasks and consultations."

Creator  Belyy Lev E., professor, MD