

# BUNIN YELETS STATE UNIVERSITY

"APPROVED"

Director of the Institute of Psychology  
And Pedagogy \_\_\_\_\_ /T.D.Krasova/

## THE WORK PROGRAMME OF THE DISCIPLINE B1.C.03.01 Life safety



**Direction of training:** 44.03.01 Pedagogical Education

**Profile:** Primary education

**Qualification (degree):** bachelor

**Mode of study:** full-time

**Institute of Psychology and Pedagogy**

**Department:** Physical education, professional physical training and life safety

	full-time	full-time and part-time form	part-time form
Study course	1		
Term	1		

Lectures	18		
Laboratory exercises			
Practical (seminar) classes	18		
Consultations			
Form(s) of midterm assessment	Credit test		
Control			
Independent work	36		

**Total number of academic hours:** 72  
**labor intensity:** 2 credits.

Developer(s) of the work programme:

Senior Lecturer of the Department of Physical Culture, Sport and Life Safety \_\_\_\_\_ P.V. Pankin

Signature

## I. ORGANIZATIONAL AND METHODOLOGICAL SECTION

**The purpose of studying the discipline:** the formation of a professional safety culture, which is understood as the readiness and ability of an individual to use in professional activities the acquired set of knowledge, skills and abilities to ensure safety in the sphere of professional activity, the nature of thinking and value orientations, in which safety issues are considered a priority.

### Objectives of studying the discipline

- gaining an understanding of the problems of sustainable development and the risks associated with human activities;
- mastering methods of rationalizing life activities aimed at reducing anthropogenic impact on the natural environment and ensuring the safety of the individual and society;
- a culture of professional safety, the ability to identify hazards and assess risks in the area of their professional activity;
- motivation and abilities to independently improve the level of safety culture;
- ability to assess the contribution of one's subject area to a security solution;
- the ability to reasonably justify their decisions from a security point of view.

**The place of the discipline in the structure of the BPEP:** is implemented within the framework of the compulsory part of block B1. Disciplines (modules).

### Planned learning outcomes for the course:

Code competencies	Indicators of Competence Achievement	Planned learning outcomes by discipline
UC-8	<b>To know:</b> - the principles of ensuring safe and/or comfortable working conditions in the workplace;	<b>Knows:</b> - rules of industrial and household safety in the workplace; - methods and means of protecting production personnel in emergency situations;
	<b>To be able to:</b> - identify and resolve problems related to safety violations in the workplace;	<b>Is able to:</b> - recognize the main signs of emergency situations; - assess the degree of risk of hazards;
	<b>To possess:</b> - actions to prevent the occurrence of emergency situations (natural and man-made) in the workplace and the implementation of rescue and emergency recovery measures in the event of emergency situations.	<b>Possesses:</b> - methods of assessing emergency situations; - a method for selecting optimal actions in emergency situations based on knowledge of potential hazards, means and methods of protection, and skills in their practical use.
GPC-8	<b>To know:</b>	<b>Knows:</b>

	-special, including subject and methodological scientific knowledge; - the basics of pedagogical activity of a subject teacher (according to the profile of the educational program).	- problems, tasks and methods of scientific research, sources of information, modern methods of scientific research
	<b>To be able to:</b> - use modern technologies and methods for organizing class and extracurricular activities; - use traditional and modern forms and methods of educational work, including in the subject area.	<b>Is able to:</b> - identify problems, tasks and methods of scientific research; obtain new reliable facts based on observations, experiments, and scientific analysis of empirical data; generalize the results obtained in the context of previously accumulated knowledge in science; - formulate conclusions and practical recommendations based on representative and original research results
	<b>To possess:</b> -skills in organizing various types and forms of classes, taking into account the specifics of the subject area; - actions of organizing various types of extracurricular activities: play, educational and research, artistic and productive, cultural and leisure.	<b>Possesses:</b> - skills of generalizing the obtained results in the context of previously accumulated knowledge in science; - skills in reviewing scientific papers, compiling analytical reviews of accumulated information in world science and industrial activities

**II.CONTENT AND SCOPE OF THE DISCIPLINE**  
**indicating the number of hours allocated for contact work of students**  
**with a teacher (by type of class) and for independent work**

**Full-time education**

Item No.	Name of sections and topics	Total	Classroom lessons			Himself. slave.
			OK	PZ	LB	
	<b>Section 1. Fundamentals of Life Safety</b>	<b>12</b>	<b>3</b>	<b>3</b>		<b>6</b>
1	Topic 1. Theoretical foundations of life safety	4	1	1		2
2	Topic 2. Man as the main element of life safety	4	1	1		2
3	Topic 3. Basics of a healthy lifestyle	4	1	1		2
	<b>Section 2. Natural emergencies</b>	<b>20</b>	<b>5</b>	<b>5</b>		<b>10</b>
4	Topic 4. Earthquakes	4	1	1		2
5	Topic 5. Floods	4	1	1		2
6	Topic 6. Landslides, mudflows, avalanches	4	1	1		2
7	Topic 7. Forest and peat	4	1	1		2

	fires					
8	Topic 8. Storms, hurricanes, tornadoes	4	1	1		2
	<b>Section 3. Man-made emergencies</b>	<b>20</b>	<b>5</b>	<b>5</b>		<b>10</b>
9	Topic 9. Transport accidents and disasters	4	1	1		2
10	Topic 10. Fires and explosions	4	1	1		2
11	Topic 11. Emergencies associated with the release of hazardous chemical substances	4	1	1		2
12	Topic 12. Accidents with release of radioactive substances	4	1	1		2
13	Topic 13. Hydrodynamic accidents	4	1	1		2
	<b>Section 4. Emergencies of a social nature</b>	<b>8</b>	<b>2</b>	<b>2</b>		<b>4</b>
14	Topic 14. Mass riots	4	1	1		2
15	Topic 15. Criminogenic situations	4	1	1		2
	<b>Section 5. Protection of the population in emergency situations</b>	<b>12</b>	<b>3</b>	<b>3</b>		<b>6</b>
16	Topic 16. Unified state system for prevention and elimination of emergencies	4	1	1		2
17	Topic 17. Protection from dangers in the technosphere	4	1	1		2
18	Topic 18. First aid	4	1	1		2
19	<i>Credit</i>					
20	<i>Total for _I_ semester</i>	<i>72</i>	<i>18</i>	<i>18</i>		<i>36</i>
	TOTAL:	72	18	18		36

**Full-time and part-time education (*not implemented*)**

**Part-time education (*not implemented*)**

**III. EVALUATION MATERIALS FOR CONDUCTING CURRENT AND INTERIM CERTIFICATION OF STUDENTS IN THE DISCIPLINE**

Current certification is carried out in the form of a test, assignment, essay, creative task, case, etc.

**Standard version of the test paper**

## Solve a situational problem

### №1

The RSChS warning system has received a signal about an approaching hurricane. Your actions in case of a threat and during a hurricane.

### №2

As a result of a traffic accident in the area of the Simferopol reservoir, a tanker truck transporting chlorine became depressurized.

The resulting yellow-green cloud moved toward a residential area. The first to experience attacks of acute suffocation were people in the immediate vicinity of the accident site. A total of 112 people suffered from chlorine poisoning of varying severity. 10 of them were immediately hospitalized in the intensive care unit. All the rest were taken under medical observation due to the risk of toxic pulmonary edema.

1. To which group of hazardous substances does chlorine belong?
2. Indicate possible routes of poisoning.
3. What is the main type of damage that develops when exposed to this substance?
4. Name the scope of first medical and first aid in case of chlorine poisoning.

## Answers

### №1

Once you receive information about a hurricane threat, you must:

close windows, doors, attic hatches and ventilation openings on the windward side of buildings and open them on the leeward side;

prepare a supply of food, drinking water, lanterns, candles, medicines and other necessary supplies;

take shelter in buildings or shelters (in the event of a tornado - only in basements and underground structures); in buildings, take places in niches, near walls, in built-in closets; when outdoors, take shelter in a hole, ravine, ditch, or ditch that is located at a distance from buildings and structures; when in transport, leave it and take shelter in a safe place (ditch, basement, shelter); during a hurricane or tornado, do not enter damaged buildings.

If you find yourself in a building during a hurricane, you must move away from the windows and take a safe place (a niche, a doorway, a corner formed by load-bearing walls). After waiting for the wind gusts to subside, move to a more reliable shelter (a shelter, a basement, a cellar).

### No. 2.

1. Substances with predominantly asphyxiating action.
2. Inhalation.
3. Pulmonary edema.
4. First aid: putting on a gas mask, removal from the contaminated area. In case of reflex respiratory arrest - artificial respiration. First aid is aimed at stopping

developing pulmonary edema: calcium chloride, ascorbic acid, intravenous prednisolone, oxygen-air mixture with alcohol vapors

### **Sample topics for abstracts**

1. Formation of the science of life safety: history of development and theoretical foundations
2. Man in the environment as the main element of life safety
3. Danger and safety are key concepts in the science of life safety
4. Understanding Healthy Lifestyle in Modern Society
5. The problem of society's attitude to alcohol, tobacco and drugs
6. Modern forms of human dependence
7. Organization of safe work on personal computers and video display terminals
8. Earthquake as a natural emergency
9. Ways to prevent and eliminate the consequences of floods
10. Peat fires and their impact on the human environment
11. Storms, hurricanes, tornadoes and their varieties, features of the place of occurrence
12. Life safety in transport
13. Emergency chemically hazardous substances (ECHS)
14. Radiation as a factor of influence on humans
15. Global environmental change
16. Emergencies in crowded situations
17. History of the development of weapons of mass destruction
18. Society and Terrorism
19. National security of the country in modern conditions
20. RSCoS and the safety of the human environment
21. Providing first aid

Interim assessment of students is carried out in the form of a test using the following assessment materials: a list of questions for the test.

### **Questions for the test**

#### **(1 semester, full-time education)**

1. The purpose and content of the teaching on life safety
2. Principles of Life Safety Science
3. Concepts and terms of life safety science
4. Man and the environment
5. Fundamentals of human interaction with the environment
6. Parameters and types of impact of flows on humans
7. Hazards and their classification
8. The concept of acceptable risk
9. Security, security systems
10. The relationship between health and healthy lifestyle
11. Components of a healthy lifestyle
12. Nicotine, alcohol and drug addiction
13. Other forms of addiction: Internet, gambling

14. Causes and characteristics of earthquakes
15. Earthquake Prediction and Protection
16. Seaquake. Tsunami
17. Volcanic eruptions
18. Classification and types of floods
19. Protection and actions of the population in case of flood threat
20. Landslides: characteristics and classification
21. Landslides: causes and classification
22. Mudflows: types, conditions and types of mudflow formation
23. Snow avalanches: factors of occurrence and classification
24. Actions of the population in case of threat of landslides, mudflows and avalanches
25. Types of forest fires and their consequences
26. Extinguishing forest fires
27. Peat fires
28. Fighting Peat Fires
29. Origin and assessment of storms, hurricanes and tornadoes
30. Safety measures during storms, hurricanes and tornadoes
31. Actions of the population in the event of a threat and during storms, hurricanes and tornadoes
32. Accidents on public transport
33. Accidents on railway transport
34. Accidents in aviation transport
35. Accidents on water transport
36. Characteristics and classification of fire and explosion hazardous objects
37. Classification and characteristics of fires and explosions
38. Explosions of condensed explosives, gas, steam and dust-air mixtures
39. Classification of hazardous chemical substances
40. Accidents with hazardous chemical releases
41. Discovered phenomena of radioactivity
42. Natural sources of radioactivity on Earth
43. Accidents at radiation hazardous facilities
44. Actions of the population in case of an accident at a nuclear power plant
45. Accidents at hydraulic structures
46. Causes and types of hydraulic accidents
47. Consequences and measures to protect the population from hydrodynamic accidents
48. Greenhouse effect
49. Acid rain
50. The Earth's Ozone Screen
51. The problem of waste
52. Destruction of forests
53. Anthropogenic impact on the hydrosphere
54. City as an environment of increased danger, crowd, types of crowd
55. Panic as a condition for the emergence of emergency situations

56. Mass pogroms, spectacles and celebrations
57. Safety in a crowd
58. Nuclear and thermonuclear weapons
59. Chemical weapons
60. Bacteriological weapons
61. Characteristics of the criminal situation
62. Professional crime
63. Economic crime
64. Forces and resources of the RSChS
65. Prevention and elimination of emergencies
66. Modes of operation of the RSChS
67. General principles of protection against hazards
68. Personal protective equipment
69. Protection from hazards in emergency situations
70. Injuries and First Aid
71. Conditions that are immediately life-threatening
72. Loading and evacuation of the victim

#### **IV. LIST OF REFERENCES REQUIRED FOR MASTERING THE DISCIPLINE**

##### **4.1. Main literature**

1. Life Safety: textbook / V. O. Evseev, V. V. Kasterin, T. A. Korzhinek [et al.]; edited by E. I. Kholostova, O. G. Prokhorova. - 4th ed., reprinted - Moscow: Dashkov i K<sup>o</sup>, 2022. - 452 p.: ill., table. - (Educational publications for bachelors). - Access mode: by subscription. - URL: <https://biblioclub.ru/index.php?page=book&id=684378> (accessed: 02.09.2024)

##### **4.2. Additional literature**

1. Life Safety: textbook: [16+] / edited by E.I. Kholostova, O.G. Prokhorova. - 2nd ed. - Moscow: Dashkov i K<sup>o</sup>, 2019. - 453 p.: ill. - (Educational publications for bachelors). - Access mode: by subscription. - URL: <http://biblioclub.ru/index.php?page=book&id=573161> (access date: 02.09.2024). – Bibliography in the book – ISBN 978-5-394-03216-5. – Text: electronic.
2. Khvan T.A. Life Safety: a textbook for university students / T.A. Khvan, P.A. Khvan. – 11th ed. – Rostov-on-Don: Phoenix, 2014. – 448 p.

#### **V. LIST OF RESOURCES OF THE INFORMATION AND TELECOMMUNICATION NETWORK "INTERNET" REQUIRED FOR MASTERING THE DISCIPLINE**

<b>No. pp</b>	<b>Link to information resource</b>	<b>Name of the development in electronic form</b>	<b>Availability</b>
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1.	<a href="https://infourok.ru/">https://infourok.ru/</a>	<b>Infourok:</b> educational internet project of Russia. Includes: lesson plans, presentations, tests, video lessons and other materials on school curriculum subjects.	Free access
2	<a href="https://www.vniigochs.ru">https://www.vniigochs.ru</a>	All-Russian Research Institute for Civil Defense and Emergencies of the Russian Emergencies Ministry	Free access

## **VI.MODERN PROFESSIONAL DATABASES AND INFORMATION REFERENCE SYSTEMS**

1.	<a href="http://www.biblioclub.ru">http://www.biblioclub.ru</a>	Electronic library system (EBS) University Library Online	Registration via any university computer. In the future, unlimited individual access is provided from any point where there is access to the Internet.
2.	<a href="http://www.garant.ru">www.garant.ru</a>	Information and legal portal	Free access
3.	<a href="http://www.elibrary.ru">www.elibrary.ru</a>	Russian information portal in the field of science, technology, medicine and education	Free access
4.	<a href="http://www.consultant.ru">www.consultant.ru</a>	Russian computer reference and legal system	Free access

## **VII.LICENSED AND FREELY DISTRIBUTABLE SOFTWARE**

The following licensed and freely distributed software is used in the implementation of the academic discipline:

- Microsoft Windows;
- Microsoft Office;
- LibreOffice and etc.

## **VIII. EQUIPMENT AND TECHNICAL TEACHING AIDS REQUIRED FOR THE IMPLEMENTATION OF THE EDUCATIONAL PROCESS IN THE DISCIPLINE**

Classes are held in classrooms equipped with specialized furniture, including stationary or portable technical teaching aids (projector, screen, computer/laptop).

Independent work is carried out in rooms equipped with computers with the ability to connect to the Internet and provide access to the electronic information and educational environment of the university.