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**Federal State Autonomous Educational Institution of Higher Education
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA
RUDN University**

Agrarian and Technological Institute

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

COURSE SYLLABUS

Life safety

course title

Recommended by the Didactic Council for the Education Field of:

36.05.01 Veterinary

field of studies / speciality code and title

The course instruction is implemented within the professional education programme of higher education:

36.05.01 Veterinary

higher education programme profile/specialisation title

1. GOALS AND OBJECTIVES OF THE COURSE

The aim of the "**Life safety**" course is to provide students with an understanding of the patterns of formation of hazards and measures to prevent their impact on people.

2. REQUIREMENTS FOR LEARNING OUTCOMES

The implementation of the course "**Life safety**" is aimed at creating the following competencies (parts of competencies) for students:

Table 2.1. List of competencies formed by students during the development of the course (results of the development of the course)

Competence code	Competence descriptor	Indicators of competence accomplishment (within the course)
GC-8	Is able to create and maintain safe living conditions in everyday life and professional activities to preserve the natural environment, ensure the sustainable development of society, including the threat and emergence of emergencies and military conflicts	GC-8.1 Analyzes factors of harmful influence on the life activity of elements of the environment (technical means, technological processes, materials, buildings and constructions, natural and social phenomena);
		GC-8.2 Identifies hazardous and harmful factors within the scope of the job;
		GC-8.3 Identifies and corrects problems related to safety violations in the workplace;
		GC-8.4 Explains emergency prevention measures;
		GC-8.5 Explains the rules of conduct in emergencies of natural and man-made origin, as well as in military conflicts;
		GC-8.6 Administers first aid, participates in recovery activities.

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course "**Life safety**" refers to the mandatory part of block B1 of the Educational Program of Higher Education.

As part of the Educational Program of Higher Education, students also master other courses and /or practices that contribute to achieving the planned results of mastering the course "**Life safety**".

Table 3.1. List of Higher Education Program components courses that contribute to expected learning outcomes

Competence code	Competence descriptor	Previous courses/modules, internships*	Subsequent courses/modules, internships*
GC-8	Is able to create and	Basics of	Veterinary

maintain safe living conditions in everyday life and professional activities to preserve the natural environment, ensure the sustainable development of society, including the threat and emergence of emergencies and military conflicts	Professional Ethics Inorganic and analytical chemistry Organic chemistry Biological physics	Microbiology and Mycology Virology and biotechnology Veterinary radiobiology General and Veterinary Ecology Study practice Preparation for and passing the state exam
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4. COURSE WORKLOAD AND TRAINING ACTIVITIES

Course workload of the course "Life safety" is 3 credits.

Table 4.1. Types of academic activities during the period of the HE program mastering for *full-time* study

Types of academic activities	HOURS	Semesters			
		3	-	-	-
Contact academic hours	51	51	-	-	-
including					
Lectures	17	17	-	-	-
Lab work	34	34	-	-	-
Seminars (workshops/tutorials)	-	-	-	-	-
Self-study	37	37	-	-	-
Evaluation and assessment (exam/pass/fail grading)	20	20	-	-	-
Course workload	Academic hour	108	108	-	-
	Credit unit	3	3	-	-

5. COURSE CONTENTS

Table 5.1 Content of the course (module) by type of academic work

Modules	Content of the modules (topics)	Types of academic activities
Module 1. Theoretical foundations of life safety	Topic 1.1. Basic concepts, terms and definitions.	Lectures, Lab work.
	Topic 1.2. Characteristic systems "man - environment".	Lectures, Lab work.
	Topic 1.3. Industrial, urban, household, natural environment.	Lectures, Lab work.
	Topic 1.4. Human interaction with the environment.	Lectures, Lab work.

	Topic 1.5. Law of preservation of life Kurazhkovsky Yu.N.	Lectures, Lab work.
	Topic 1.6. Basics of optimal interaction: comfort, minimization of negative impacts, sustainable development of systems.	Lectures, Lab work.
Module 2. Risk	Topic 2.1. Concept of risk.	Lectures, Lab work.
	Topic 2.2. Risk assessment.	Lectures, Lab work.
	Topic 2.3. General classification of risks.	Lectures, Lab work.
	Topic 2.4. Damage.	Lectures, Lab work.
	Topic 2.5. Risk concept.	Lectures, Lab work.
Module 3. Natural emergencies and protection of the population from their consequences	Topic 3.1. Natural emergencies.	Lectures, Lab work.
	Topic 3.2. Basic concepts and definitions, classification of emergency situations: geophysical and geological hazardous phenomena; meteorological and agrometeorological hazards; marine hydrological hazards; natural fires.	Lectures, Lab work.
	Topic 3.3. Characteristics of damaging factors of sources of natural emergencies.	Lectures, Lab work.
Module 4. Technogenic emergencies and protection of the population from their consequences	Topic 4.1. Technogenic emergencies.	Lectures, Lab work.
	Topic 4.2. Basic concepts and definitions, classification of emergency situations: fires, explosions, the threat of explosions; accidents with the release (threat of release) of emergency chemically hazardous substances (AHOV); accidents with release (threat of release) of radioactive substances (RS); accidents with the release (threat of release) of biologically hazardous substances (BOV).	Lectures, Lab work.
	Topic 4.3. Damaging factors of sources of man-made emergencies. Emergency development phases.	Lectures, Lab work.
Module 5. The world. Hazards in daily life and safe behavior	Topic 5.1. The world around and the person, the nature of their interaction. Man as an object and subject of security. Situations arising in the process of human life.	Lectures, Lab work.
	Topic 5.2. Features of the city as a habitat. Hazardous areas in the city.	Lectures, Lab work.
Module 6. Dangers in everyday life. Social	Topic 6.1. Protection against natural disasters.	Lectures, Lab work.

dangers	Topic 6.2. Protection against global influences.	Lectures, Lab work.
	Topic 6.1. Protection against terrorism.	Lectures, Lab work.
Module 7. Biological and social emergencies	Topic 7.1. Quarantine.	Lectures, Lab work.
	Topic 7.2. Observation.	Lectures, Lab work.
	Topic 7.3. Pandemics of the 20th - 21st centuries	Lectures, Lab work.
Module 8. Harmful addictions and their social consequences	Topic 8.1. Computer addiction.	Lectures, Lab work.
	Topic 8.2. The effect of alcohol on the human body.	Lectures, Lab work.
	Topic 8.3. Drug addiction and substance abuse.	Lectures, Lab work.
	Topic 8.4. Smoking and its impact on human health.	Lectures, Lab work.

6. COURSE EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Material and technical support of the course

<i>Classroom for Academic Activity Type</i>	<i>Equipping the classroom</i>	Specialized educational/laboratory equipment, software and materials for the development of the course (if necessary)
Lecture	An auditorium for conducting lecture-type classes, equipped with a set of specialized furniture; a board (screen) and technical means of multimedia presentations.	<ul style="list-style-type: none"> - Classrooms equipped with multimedia projectors. - Computer classes at ATI, the RUDN University Information Library Center with access to the RUDN University electronic library system, the Internet. - Simulator for first aid. - Educational and laboratory simulator "Security and fire alarm". - Mobile automated examination complex.
Laboratory	An auditorium for laboratory work, individual consultations, routine monitoring and interim certification, equipped with a set of specialized furniture and equipment.	<ul style="list-style-type: none"> - Classrooms equipped with multimedia projectors. - Computer classes at ATI, the RUDN University Information Library Center with access to the RUDN University electronic library system, the Internet. - Simulator for first aid.

		<ul style="list-style-type: none"> - <i>Educational and laboratory simulator "Security and fire alarm".</i> - <i>Mobile automated examination complex.</i>
Self-studies	An auditorium for independent work of students (can be used for seminars and consultations), equipped with a set of specialized furniture and computers with access to an electronic information and educational environment.	

7. RESOURCES RECOMMENDED FOR COURSE STUDIES

Main readings:

1. Burlakov A.A. Fundamentals of life safety: textbook / A.A. Burlakov. - Electronic text data. - Moscow: GEOTAR-Media, 2020. : ill. - ISBN 978-5-9704-5430-5.
2. Levchuk I.P. Life safety: study guide / I.P. Levchuk, A.A. Burlakov. - 2nd ed., Rev. and add. ; Electronic text data. - Moscow: GEOTAR-Media, 2020. - ISBN 978-5-9704-5756-6.

Additional Readings:

1. Belov, SV Safety of life: textbook. for universities / S. V. Belov, A. V. Ilnitskaya, A. F. Kozyakov, etc .; under total. ed. S. V. Belova. - Ed. 3rd, rev. and add. - M .: Higher. shk., 2019.
2. Safety of life at work (labor protection): Textbook for universities. Belyakov GI, series: "Textbooks for universities. Special literature", 2016, Publisher: Publishing house LAN.
3. SanPiN 2.22.542-96 "Hygienic requirements for video display terminals, personal computers and work organization". - M .: Goskomsanepidemnadzor of Russia, 2019.
4. Atamanyuk V.G. Civil defense, - M .: Higher school, 2017.

Internet sources

1. Electronic libraries (EL) of RUDN University and other institutions, to which university students have access on the basis of concluded agreements:

- RUDN Electronic Library System (RUDN ELS)
<http://lib.rudn.ru/MegaPro/Web>

- EL "University Library Online" <http://www.biblioclub.ru>
- EL "Yurayt" <http://www.biblio-online.ru>
- EL "Student Consultant" www.studentlibrary.ru
- EL "Lan" <http://e.lanbook.com/>
- EL "Trinity Bridge"

2.Databases and search engines:

- electronic foundation of legal and normative-technical documentation
<http://docs.cntd.ru/>

- Yandex search engine [https:// www .yandex.ru/](https://www.yandex.ru/)
- Google search engine <https://www.google.ru/>

- Scopus abstract database <http://www.elsevierscience.ru/products/scopus/>

Educational and methodological materials for independent work of students during the development of the course/ module*:

1. A course of lectures on the course " **Life safety**".
2. Laboratory workshop on the course " **Life safety**".

* - The training toolkit and guidelines for the internship are placed on the internship 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 AS COURSE RESULTS

The assessment toolkit and the grading system* to evaluate the level of competences (competences in part) formation as the course results 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).

DEVELOPER:

Senior Lecturer of the Department of Technosphere
safety

Position, Basic curriculum

Signature

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Full name.

HEAD HEAD OF EDUCATIONAL DEPARTMENT:

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HEAD OF HIGHER EDUCATION PROGRAMME:

Director of the Department of Veterinary Medicine

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Vatnikov Yu.A.

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