

SYLLABUS OF THE COURSE

Life Safety and Civil Protection

The level of higher education the first (bachelor's).

Programme Subject Area 015 Vocational education (Technology of consumer goods manufacturing)*; 015.36 Vocational education (Technology of consumer goods manufacturing)*; 017 Physical education and sport; 022 Design; 026 Performing arts; 034 Culturology; 035 Philology; 051 Economics*; 071 Accounting and taxation*; 072 Finance, banking and insurance*; 073 Management*; 075 Marketing*; 076 Business, trade and exchange activities*; 081 Law*; 105 Applied physics and nanomaterials*; 121 Software engineering; 122 Computer sciences; 123 Computer engineering; 124 System analysis; 126 Information systems and technologies; 131 Applied mechanics; 133 Industrial machinery engineering; 141 Power, electrical and electromechanical engineering; 151 Automation and computer-integrated technologies; 161 Chemical technologies and engineering; 162 Biotechnology and bioengineering; 182 Consumer industry technologies*; 226 Pharmacy, industrial pharmacy; 241 Hotel, restaurant and catering*; 242 Tourism*; 281 Public management and administration*.

Discipline status - obligated

Instructor (s) of the Department of Computer Engineering and Electromechanics: Professor Panasiuk I. V., associate professor Bieliaiev S.V., associate professor Romanyuk O.O., associate professor Romanyuk Ye.O.

1. Course description

Scope: total number of hours – 90, including: lectures – 12 hours, practical – 12 hours, independent work – 66 hours; number of ECTS credits – 3.

Course objectives – mastering competencies/abilities is to acquire the ability to carry out professional activities in the specialty with mandatory compliance with safety requirements, using the latest advances in scientific and technological progress and international experience in safety, safety of life, health and ability to work; to be responsible for personal and collective security in everyday conditions and during emergencies and martial law, taking into account the peculiarities of future professional activity in the primary position.

Learning outcomes of the course:

know: the basic stages and principles of forming a safe human life; characteristics, classification and normalization of external and internal negative factors that adversely affect human health; the influence of psychophysiological features of man on the formation of its security; dangers that may occur at home, on the street, in the environment, in an educational institution and their possible consequences; safety rules, ways to protect yourself and your environment in the event of various emergencies of natural, man-made, socio-political and military nature; opportunities to prevent, respond to hazards of various origins and their consequences; legislative acts and normative documents on the issues of safety of human life and safety in Ukraine; basics of self- and mutual assistance in emergencies, dangerous situations, etc .; the essence of the culture of safe living, the stages of its formation and basic life values;

be able: form ecological consciousness and culture of the person, understanding of necessity and observance of ecological principles in a life and professional activity;

able to demonstrate: a culture of safety and risk-oriented thinking, in which issues of safety, protection and preservation of the environment are considered as the most important priorities in life and work;

have the skills: to use the provisions of legislative acts and regulations in their activities; identify harmful and dangerous factors in the environment; assess sanitary and hygienic conditions, risks and level of occupational safety; be able to act in emergency situations within its competence in the primary position; have the basic methods of saving life, health and ability to work;

solve independently: tasks of professional activity with obligatory consideration of requirements of Safety of life and civil protection thereby guarantee of preservation of life, health and working capacity.

Necessary educational components (prerequisites, co-requisites, post-requisites): philosophy, Political Science and Sociology; Physical Education.

Course contents: Topic 1. Categorical-conceptual Apparatus on Life Safety, Taxonomy of Dangers. Risk as a Quantitative Assessment of Hazards. Topic 2. Natural Threats and the Nature of their Manifestations and Actions on People, Animals, Plants, Objects of the Economy. Topic 3. Man-made Hazards and their Consequences. Topic 4. Socio-political Dangers, their Types and Characteristics. Social and Psychological Risk Factors. Behavioral Reactions of the Population in an Emergency Situation. Topic 5. Application of Risk-oriented Approach to Build Probabilistic Structural and Logical Models of the Emergence and Development of an Emergency. Topic 6. Safety Management, Legal Support and Organizational and Functional Structure of Protection of the Population and Nuclear Power Plants in Emergencies. Management of Forces and Means of +

Form of final control: examination (Semesters: 1, 2*).

Tools for diagnosing learning success: individual tasks, calculation works, questions for final control.

Language of instruction: Ukrainian, English.

2. Evaluation

Distribution of points received by students

Ongoing assessment and independent work						MC	Examination	total
T1	T2	T3	T4	T5	T6			
7	35	7	7	7	7	20	10	100

Distribution of points in the course

Types of work evaluated in points	T1	T2	T3	T4	T5	T6	total
Execution and protection of practical work	7	7	7	7	7	7	42
Calculation and graphic work	-	-	28	-	-	-	28
Modular control	20						20
Examination	10						10
Total of points in the discipline							100

Exam evaluation criteria

Theoretical questions (5 questions on 2 points) - 10 points:

2 points - are awarded to students who are fluent in the study material, orient in the question and express their opinions.

1 point - students who partially own the material and can outline only some of the problems of the question.

0 points - the student does not have the study material and is not able to present it, does not understand the content of the question.

Compliance with the scales for assessing the quality of learning material

Score on the national scale	Points	Assessment on the ECTS scale	Definition
excellent / passed	90-100	A	Excellent (outstanding performance without errors)
good / passed	82-89	B	Very good (above the average standard but with minor errors)
	74-81	C	Good (generally sound work with some errors)
satisfactory / passed	64-73	D	Satisfactory (fair but with significant shortcomings)
	60-63	E	Fair (performance meets the minimum criteria)
unsatisfactory / failed	35-59	FX	Fail (some more work required before the credit can be awarded)
	0-34	F	Fail (considerable further work is required)

3. Course policy:

3.1 Mandatory observance of academic integrity by higher education students, namely:

- independent performance of all activities, tasks, forms of control provided by the working program of this course;
- references to the sources of information if ideas, developments, statements, information are used;
- compliance with the legislation on copyright and related rights;
- providing reliable information about the results of their own educational (scientific, creative) activities, used research methods and sources of information.

3.2 Recognition of learning outcomes obtained in non-formal education is allowed.

3.3 In case of untimely performance of works, their assessment is reduced (75% of the possible maximum number of points for the type of activity points).

3.4 Postponement of delivery / re-submission:

- for valid reasons (hospital, academic mobility, etc.) on a written statement certified by the curator and employees of the dean's office;
- without good reason is evaluated on a scale of 75% of the possible maximum number of points for the type of activity points.

3.5 When plagiarism is detected, the student's work is sent for revision.

3.6 Attendance policy: Attendance is a mandatory component of assessment. For objective reasons (eg illness, employment, international internship) training can take place online in consultation with the course leader.

3.7 Missed classes are subject to mandatory completion by a student individually or by a group of students upon application.

3.9 Mobile devices may be used only during online testing and preparation for practical tasks during the lesson or under the guidance of a teacher.