

APPROVED
Vice-rector for educational activities
Veronika.G. Shubaeva
«24» _____ 2023.

Безопасность жизнедеятельности / Safe living basics

Syllabus of the course

Specialty *38.03.02 Management*
Specialization *Business management and digital innovations*
Level of higher education *Bachelor*
Form of training *Full-time*
Year of enrolment *2023*
Authored by:
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Total number of hours	108	Form of final attestation: Test: semester 3
incl:		
contact work	64	
self-study	44	
practical training	0	
control hours	0	

Hours distribution:

Semester:	3
Type of classes	Hours
Lecture hours	36
Practical training	28
Laboratory work	
Total contact hours	64
Self-study	44
Control hours	0
Total academic hours	108
Total credits	3

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1. LEARNING OBJECTIVES

Objective:	Formation of a professional safety culture, i.e. the readiness and ability of an individual to use in professional activity the acquired set of knowledge, skills and abilities to ensure safety, the nature of thinking and value orientations, in which security issues are considered as a priority.
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2. COURSE PLACE IN THE PROGRAMME STRUCTURE

The discipline B1.O. Safe living Basics is a part of Block 1.

3. EXPECTED LEARNING OUTCOMES

Code and name of graduate competence	Code and name of the competence achievement indicator	Expected learning outcomes
UC-8 – Is able to create and maintain safe living conditions in everyday life and in professional activities for the preservation of the natural environment, ensuring sustainable development of society, including in the event of a threat and occurrence of emergencies and military conflicts	UC-8.1 – Performs operational actions to prevent emergencies and/or their consequences, including in the event of a threat and the occurrence of military conflicts	<p>To know: principles, means, methods of ensuring safety and preservation of health in human interaction with various environments, including the threat and occurrence of emergencies and military conflicts.</p> <p>To be able to: ensure the safety of life in the implementation of professional activities and environmental protection, choose methods of protection from harmful and dangerous factors in production and non-production activities, provide first aid to victims.</p> <p>To possess: conceptual and terminological apparatus in the field of life safety, techniques and methods of first aid, methods of protecting production personnel and the public in everyday life and in professional activities, techniques and methods of using personal protective equipment in emergencies, basic methods of protecting production personnel and the public in the event of an emergency, methods of first aid to victims in Emergencies and extreme situations.</p>
UC-9 – Is able to use basic defectological knowledge in social and professional spheres	UC-9.1 – Understands the importance and problems of professional and social adaptation of persons with disabilities	<p>To know: the specifics of the needs of persons with disabilities in the professional and social environment.</p> <p>To be able to: explain the value of diversity in a reasoned manner and refute stereotypes about people with disabilities.</p> <p>To possess: skills of interaction in professional and social spheres with persons with disabilities and the disabled.</p>

4. COURSE STRUCTURE AND CONTENT

Code and name of the topics	Course content	Academic hours			
		Contact work			Self-study
		Lectures	Practices	Workshops	
Topic 1. Basic concepts, axioms and tasks of the discipline "Life safety".	Basic concepts and definitions. Vital activity and its safety. The exchange of matter, energy, information between a person and his environment; the intensity of these exchange flows. The triad "danger – causes – damage". Sources of hazards and objects of their impact. The evolution of the habitat and the preservation of life; positive and negative aspects of scientific and technological progress. Axioms of "Life Safety" (BDZ). The goals and objectives of the BDZ, its place in the modern world.	1			2
Topic 2. Classification of hazards and their sources, causes and damage.	Classification of hazards: by origin, by scope of action, by time of manifestation of consequences, by localization of energy, etc. Classification of hazard sources: by power, by time of action, by position in space, etc. Classification of causes: by nature, in relation to the object (subject) of influence, etc. Classification of damage: by scale, by sphere of manifestation, etc.	1	1		2
Topic 3. Quantitative description of hazards.	Risk as a quantitative characteristic of danger. The risk of an event, the risk of defeat, the risk of damage. Types of risk: individual and group, technical and socio-economic, professional, etc. Risk assessment methods. Statistics and risk perception; ways and experience of eliminating inconsistencies. The concept of acceptable risk. The hazard source field and its description. Conditional (parametric) and coordinate laws of defeat.	1	1		2
Topic 4. Principles, methods and means of ensuring security.	Security principles. Concept and examples. Orienting, technical, organizational and managerial principles. Security methods. Concept and examples. Homosphere and noxosphere. Security tools. Concept, classification, examples. Technical means of ensuring safety and indicators of their reliability.	1	1		2
Topic 5. Analysis and management of life safety.	A systematic approach to security analysis and management. Logical operations used in security analysis. Graphical representation of cause-and-effect relationships in risk analysis and investigation of emergencies: "event tree", "tree of hazards and causes", "tree of failures". Methods of analysis: direct and reverse, a priori and a posteriori. Forecasting the situation and forecasting tasks. The essence of security management. Functions (stages) of security management. Decomposition of subject activity. Approximate design scheme of the BDZ.	1			2
Topic 6. Characteristics of the main forms and conditions of	The main forms of life activity. Physical and mental labor; the severity and intensity of labor. Working conditions: safe (optimal, permissible), harmful, traumatic. Working capacity and its dynamics; phases of labor activity. The main provisions of ergonomics.	1	2		3

activity. Organization of the labor process (elements of ergonomics) and labor protection.	Directions for establishing the conformity (compatibility) of the habitat and man. Dangerous and harmful production factors. Causes of occupational injuries and occupational diseases. Registration, investigation and accounting of industrial accidents. Injury indicators and assessment of damage from it. Accident prevention. Organization of labor protection at the enterprise. Types of safety briefings. Legislative and regulatory legal acts in the field of labor protection; state supervision and public control over their compliance. Responsibility for violation of labor protection legislation.				
Topic 7. Sanitary-hygienic and psychophysiological aspects of safety.	Human sensory systems. The Weber-Fechner Law of Perception. Microclimate. Microclimate parameters and their rationing. The influence of the deviation of microclimate parameters from the normative values on the efficiency of activity and human health. Provision of regulatory parameters of the microclimate: ventilation, air conditioning, heating, etc. Natural and artificial lighting. The influence of workplace illumination on safety and labor efficiency. Basic requirements for the illumination of premises and workplaces, principles and parameters of rationing. Artificial light sources. Mental processes, properties and states. Mental stress and its impact on human condition and behavior. Special mental states of individuals and groups of people and their assessment from the point of view of BDZ. Psychological testing.	1	2		3
Topic 8. Special assessment of working conditions.	Labor legislation. Labor protection. Industrial sanitation, safety equipment. Dangerous and harmful production factors. The procedure for conducting a special assessment of working conditions. Classification of working conditions.	2	2		3
Topic 9. Biological hazards. Social dangers.	Sources and causes of biological hazards. Poisonous mushrooms, plants and animals. Infectious diseases and their pathogens. Features of the course and spread of infectious diseases. Protective measures: vaccination, use of antibiotics, observation, quarantine, disinfection, etc. The concept, causes and classification of social hazards. Types of social dangers: blackmail, robbery, hostage-taking, terror, drug addiction, alcoholism, socially significant diseases, suicide, etc. National, religious, intra- and inter-State disagreements and mutual claims and their consequences.	1	1		2
Topic 10. Technogenic hazards.	Mechanical active (kinetic) and passive (potential) hazards: moving bodies (vehicles, machine tools and other equipment), height, inclined and slippery surfaces, etc. Parameters of mechanical hazards. Organizational and technical measures to protect against mechanical hazards. Ensuring safety during the operation of technical systems that include containers with abnormal values of the main parameters of the state of the environment. Pressure vessels (cylinders, boilers), compressors, pipelines; vacuum devices. Heating devices and furnaces; refrigerators and cryogenic installations. Technical and organizational protective measures. Hazards associated with mechanical vibrations: vibration, noise, infra- and ultrasound. Sources, types, parameters and	1	1		3

	normalization of mechanical vibrations of various frequencies. Negative impact, methods and means of protection against noise, vibration, infra- and ultrasound. Hazards associated with electromagnetic radiation: electromagnetic fields of radio frequencies, visible light, infrared and ultraviolet radiation; laser technology. Sources and parameters, negative impact and rationing, methods and means of protection against electromagnetic radiation and fields of different wavelengths. Electric current as a negative factor. The damaging effect and the factors determining it; types of electric shock and first aid in case of electric shock. Parameters and rationing, principles, methods and means of protection against electric current. Static electricity: sources and protective measures. Atmospheric electricity: lightning and lightning protection.				
Topic 11. Environmental hazards.	Pollution of the atmosphere, hydrosphere and lithosphere. The main types, sources and consequences of pollution. Rationing and quality control of air, water and soil. Active and passive methods of protecting a person from emissions of harmful substances. Dry and wet methods of cleaning atmospheric emissions from dust. Sorption, thermal and biological methods of purification from gaseous contaminants. Types of wastewater and their treatment by mechanical, physico-chemical and biological methods. Solid and liquid waste and their processing. Dispersion of emissions, sanitary protection zones. Waste-free and low-waste technologies: the concept and basic elements.	1			2
Topic 12. General information about emergency situations.	The concept of an emergency (emergency) and its signs. Conditions and causes of an emergency. An emergency zone and a lesion; an accident and a catastrophe. Classification of emergencies: by nature of occurrence, by scale, by speed of development; by types of impact zones, etc.	1	1		3
Topic 13. Technogenic emergencies of peacetime and wartime.	Radioactive substances and ionizing radiation. Natural and artificial radiation. Parameters and rationing, consequences and protection from exposure to ionizing radiation. Radiation-hazardous objects for peaceful and military purposes. Nuclear weapons and their means of use. Accidents at nuclear power plants, their categorization and damaging factors. Nuclear explosions, their types and damaging factors. Comparison of the radiation situation in an accident at a nuclear power plant and in a nuclear explosion. Zoning of the territory and criteria for making decisions on protective measures in the event of a radiation accident and a nuclear explosion. Harmful and toxic substances, emergency chemical hazardous substances, chemical warfare agents. Parameters and classification of hazardous substances for peaceful and military purposes. Rationing, consequences and protection from exposure to hazardous substances. Chemically hazardous objects, their categorization and accidents on them. Chemical weapons and their means of use. Zones of chemical contamination, their parameters and factors affecting them. Protection of the population and territories in case of chemical accidents. Gorenje and	1	1		2

	<p>fire. The essence, conditions of occurrence and varieties of the gorenje process. Characteristics of the fire hazard of substances. Classification of premises according to the degree of fire hazard, buildings and structures – according to the degree of fire resistance. Incendiary weapons and means of their use. Fires: their main causes, damaging factors and phases of occurrence. Rules of conduct and means of rescuing people in case of fire. Principles and methods of extinguishing fires; extinguishing agents and fire extinguishing agents. Means of fire alarm and notification. Fires in populated areas: their varieties and factors affecting their spread; fire protection measures. Landscape fires: their types, features and methods of fighting. Explosions. Explosion power, TNT equivalent. Damaging factors of explosions and their parameters. Features of explosions of fuel-air mixtures. Explosive objects of peaceful and military use. Explosive ammunition and their means of delivery. The degree of damage to people, the degree of destruction of buildings and structures, areas of destruction in settlements during explosions. Prevention of explosions and reduction of damage from them.</p>				
Topic 14. Natural emergencies (natural hazards).	<p>The concept and main causes, damaging factors and parameters of natural hazards. Methods and possibilities of protection from natural hazards. Lithospheric hazards and emergencies: geophysical – earthquakes, volcanic eruptions and geological – landslides, mudslides, avalanches. Hydrosphere hazards and emergencies: floods, floods, tsunamis, waves at sea. Atmospheric hazards and emergencies: cyclones, anticyclones, hurricanes, tornadoes, fogs, showers, hail, heavy snowfall. Cosmic hazards: cosmic bodies and radiation. Features of manifestation, negative consequences and protection from space hazards.</p>	1			2
Topic 15. Protection of the population and territories in emergency situations.	<p>Legal and regulatory acts in the field of protection of the population and territories from natural and man-made emergencies. Unified State system of prevention and liquidation of Emergency Situations (RSChS). Tasks, structure, modes of operation and areas of activity of the RSChS. Hazardous production facilities: their registration and licensing. Examination and declaration of safety of hazardous production facilities. The structure of the civil defense of the economic object and the tasks of civil organizations of civil defense. Planning of events and training of the management staff and personnel of the facility, as well as the population in the field of civil defense. Methods and means of protection in emergency situations. Evacomeropriety. Means of collective protection: their types and requirements imposed on them. Personal protective equipment: their classification, principle of operation and capabilities.</p>	1			2
Topic 16. Elimination of consequences of emergency situations.	<p>Fundamentals of the organization of emergency rescue and other urgent work. The order, stage and sequence of liquidation of the consequences of emergency situations. Determination of the composition of forces and means for conducting work. Features of work in areas of contamination (radiation, chemical, bacteriological), in areas of destruction and fires</p>	1	1		3

	(explosions, earthquakes, etc.), in areas of flooding. Methods of first aid to victims. Disaster medicine as an element of the emergency response system in extreme situations.				
Topic 17. Sustainability of the functioning of economic facilities in emergency situations.	The concept of sustainability of an economic object in emergency situations. Factors affecting the stability of the functioning of the object. Organization of object stability research. Assessment of the security of workers and employees, physical stability of buildings and structures, stability of equipment, communications, technologies, reliability of the management system and logistics. Ways to increase the stability of the functioning of production facilities, taking into account the likelihood of emergencies. Preparation for an accident-free shutdown of production and rapid restoration of disrupted production.	1			2
Control hours:					0
Total hours:		36	28	0	44

5. TEACHING AND LEARNING TOOLS OF THE COURSE

5.1 Recommended literature

Bibliographic description of the publication (author, title, type, place and year of publication, number of pages)	Digital resources
Life safety : a textbook / G.V.Lepesh [et al.] ; edited by G.V. Lepesh.— Saint Petersburg : Publishing House of SPbGEU, 2019 .— 193 p .	http://opac.unecon.ru/elibrary ... D0%BE%D1%81%D1%82%D0%B8_19.pdf
Life safety : a textbook for bachelors / E. A. Arustamov, A. E. Voloshchenko, N. V. Kosolapova [et al.] ; edited by Prof. E. A. Arustamov. — 22nd ed., reprint. and add. — Moscow : Publishing and Trading Corporation "Dashkov and Co.", 2020. — 446 p.	https://znanium.com/read?id=358204
Melnikov, V. P. Life safety : textbook / V.P. Melnikov. — Moscow : COURSE: INFRA-M, 2019. — 400 p.	https://znanium.com/read?id=339960
Lepesh, G. V. Security of the population and territories in emergency situations : Textbook / G. V. Lepesh, S. K. Luneva, T. V. Potemkina ; Edited by G.V. Lepesh. – Saint Petersburg : Saint Petersburg State University of Economics, 2022. – 163 p.	https://elibrary.ru/download/elibrary_49339594_12304055.pdf
Medical and biological bases of safety. Labor protection : textbook for universities / O. M. Rodionova, E. V. Anikina, B. I. Laver, D. A. Semenov. — 2nd ed., reprint. and add. — Moscow : Yurayt Publishing House, 2022. — 583 p.	https://urait.ru/bcode/489121

5.2 List of software (including national production)

- 7-Zip
- LibreOffice

- ОС АЛТ образование 10
- Moodle
- WEBINAR (ВЕБИНАР), версия 3.0

5.3 List of reference systems and modern professional databases

№	Name of reference systems and professional databases
1.	Digital library Grebennikon.ru – www.grebennikon.ru
2.	Science Digital Library eLIBRARY – www.elibrary.ru
3.	Science Digital Library КиберЛеника – www.cyberleninka.ru
4.	Database ПОЛПРЕД Справочники – www.polpred.com
5.	Database OECD Books, Papers & Statistics on the platform OECD iLibrary www.oecd-ilibrary.org
6.	Legal reference system КонсультантПлюс (installed resource UNECON or www.consultant.ru)
7.	Legal reference system «ГАРАНТ» (installed resource UNECON or www.garant.ru)
8.	Information and referral system «Кодекс» (installed resource UNECON or www.kodeks.ru)
9.	Digital library system BOOK.ru - www.book.ru
10.	Digital library system ЭБС ЮРАЙТ – www.urait.ru
11.	Digital library system ЗНАНИУМ (ZNANIUM) – www.znanium.com
12.	Digital library UNECON – opac.unecon.ru

6. TECHNICAL FACILITIES

There are special rooms for lectures, seminars, coursework, group and individual consultations, current and interim assessments, as well as rooms for self-study.

The premises are equipped with equipment and teaching aids.

The rooms for students' independent work are equipped with computers with Internet connection and access to the university's electronic learning environment.

Name of classroom	Classroom location
Classroom 2009 Training classroom (for lecture- and seminar-type classes, coursework, group and individual consultations, current control and intermediate attestation), equipped with a multimedia system. Special furniture and equipment: Educational furniture for 122 seats (study table 61 pcs., chairs 122 pcs.), the teacher's workplace, desk m/m, drawer 1 pc, chalk board 1 pc (3 sections), chair 1 pc, drawer 1 pc, chair 1 pc, Chair 2 pcs., Intel i3-2100 2.4 Ghz /4Gb/500Gb/Acer V193 19" - 1 pc, Sound projector Yamaha YSP-3000 - 1 pc, Projector stand with camera decks - 1 pc, Projection screen draper - 1 pc, Multimedia projector Type 2 Panasonic PT-VX610E - 1 pc, Screen Media D1 ceiling bracket - 1 pc. Sets of display equipment and visual aids: multimedia applications for lecture courses and practical sessions, interactive teaching and visual aids.	191023, St. Petersburg, Griboedova canal, 30-32, lit. A, B, P
Classroom 2011 Training classroom (for lecture- and seminar-type classes, coursework, group and individual consultations, current control and intermediate attestation), equipped with a multimedia system. Specialized furniture and equipment: Educational furniture for 118 seats, teacher's workplace, desk - 1 pc, chalk board (3 sections) - 1 pc, marker board - 1 pc, desk - 1 pc, desk - 1 pc, drawer - 1 pc, chair - 3 pcs., Computer Intel i3-2100 2.4 Ghz /4Gb/500Gb/Acer V193 19" - 1 pc, ScreenMedia Champion 244x183cm SCM-4304 - 1 pc,	191023, St. Petersburg, Griboedova canal, 30-32, lit. A, B, P

Panasonic PT-VX610E multimedia projector - 1 pc. Sets of display equipment and visual aids: multimedia applications for lecture courses and practical sessions, interactive teaching and visual aids.	
Classroom 2028 Training classroom (for lecture- and seminar-type classes, coursework, group and individual consultations, current control and intermediate attestation), equipped with a multimedia system. Specialized furniture and equipment: Educational furniture for 44 seats, teacher's workplace, chalk board (one section) - 1 pc, chair - 1 pc, table - 1 pc, chair - 3 pcs. Portable multimedia set: HP 250 G6 1WY58EA laptop, LG PF1500G multimedia projector. Sets of display equipment and visual aids: multimedia applications for lecture courses and practical sessions, interactive teaching and visual aids.	191023, St. Petersburg, Griboedova canal, 30-32, lit. A, B, P
Classroom 2045 Training classroom (for lecture- and seminar-type classes, coursework, group and individual consultations, current control and intermediate attestation), equipped with a multimedia system. Specialized furniture and equipment: Educational furniture for 78 seats, teacher's workplace, chalk board (3 sections) - 1 pc, chair - 1 pc, chairs - 2 pcs. Portable multimedia set: HP 250 G6 1WY58EA laptop, LG PF1500G multimedia projector. Sets of display equipment and visual aids: multimedia applications for lecture courses and practical sessions, interactive teaching and visual aids.	191023, St. Petersburg, Griboedova canal, 30-32, lit. A, B, P
Classroom 2052 Training classroom (for lecture- and seminar-type classes, coursework, group and individual consultations, current control and intermediate attestation), equipped with a multimedia system. Specialized furniture and equipment: Educational furniture for 88 seats, teacher's workplace, chalk board (3 sections) - 1 pc, desk - 1 pc, table - 2 pcs, chair - 2 pcs, Computer Intel i3-2100 2.4 Ghz/500/4/Acer V193 19" - 1 pc, Multimedia projector Type 2 Panasonic PT-VX610E - 1 pc, ScreenMedia Champion 244x183cm SCM-4304 motorized screen - 1 pc, MW Cinerollo 200*200cm manual spring loaded screen - 1 pc, Multimedia projector Type 2 Panasonic PT-VX610E - 1 pc. Sets of display equipment and visual aids: multimedia applications for lecture courses and practical sessions, interactive teaching and visual aids.	191023, St. Petersburg, Griboedova canal, 30-32, lit. A, B, P
Classroom 2060 Training classroom (for lecture- and seminar-type classes, coursework, group and individual consultations, current control and intermediate attestation), equipped with a multimedia system. Specialized furniture and equipment: Educational furniture for 82 seats, a teacher's workplace, chalk board (3 sections) - 1 pc., chair - 1 pc., table - 1 pc., chair - 2 pcs., Computer Intel i3-2100 2.4 Ghz/500/4/Acer V193 19" - 1 pc., Multimedia projector Panasonic PT-VX610E - 1 pc., Screen with electric drive ScreenMedia Champion 203x153cm (SCM-4303) - 1 pc. Sets of display equipment and visual aids: multimedia applications for lecture courses and practical sessions, interactive teaching and visual aids.	191023, St. Petersburg, Griboedova canal, 30-32, lit. A, B, P
Classroom 2061 Training classroom (for lecture- and seminar-type classes, coursework, group and individual consultations, current control and intermediate attestation), equipped with a multimedia system. Specialized furniture and equipment: Educational furniture for 80 seats, teacher's workplace, table - 1 pc, chalk board (3 sections) - 1 pc, pulpit - 1 pc, chairs - 2 pcs. Portable multimedia set: HP 250 G6 1WY58EA laptop, LG PF1500G multimedia projector. Sets of display equipment and visual aids: multimedia applications for lecture courses and practical sessions, interactive teaching and visual aids.	191023, St. Petersburg, Griboedova canal, 30-32, lit. A, B, P
Classroom 2023 Computer room (for practical classes, course design (coursework) using computer technology), equipped with a multimedia system. Specialized furniture and equipment: Educational furniture for 48 seats, teacher's workplace (computer desk - 1 pc.), wheeled marker board - 1 pc, 3 sectional marker board - 1 pc, desk - 1 pc, iso chair - 7 pcs, chair -1 pc, blinds - 3 pcs., Computer i5-8400/8GB/500GB_SSD/Viewsonic VA2410-mh -34 pcs, Switchboard Cisco Catalyst 2960-48PST-L (including SmartNet Service Contract CON-SNT-2964STL) - 1 pc, Wi-Fi Access Point Type1 UBIQUITI UAP-AC-PRO - 1 pc, NEC M350 X projector - 1 pc, Local Area Network Switch (48 ports) Cisco WS-C2960+48PST-L - 1 pc, ProCurve Switch 2626 - 1 pc, Intel pentium x2 g3250 computer /500gb / philips 21.5' monitor - 1 pc,	191023, St. Petersburg, Griboedova canal, 30-32, lit. A, B, P

Ubiquiti IP video camera - 1 pc, Wireless access point/UNI FI AP PRO/Ubiquiti - 1 pc. Sets of display equipment and visual aids: multimedia applications for lecture courses and practical sessions, interactive teaching and visual aids.	
Classroom 2034 Computer room (for practical classes, course design (coursework) using computer technology), equipped with a multimedia system. Specialized furniture and equipment: Educational furniture for 25 seats, teacher's workplace (table 1pc., chair 1pc.), marker board 1pc, Rack hanger 2pcs, chairs 3pcs. Computer I5-7400/8Gb/1Tb/DELL S2218H - 21pcs, Network switch Cisco WS-C2960-48TT-L (Catalyst2960) 48-ports 10/100Mbps+2p - 1 pc, Switchboard Cisco Catalyst 2960 24 WS-C2960-24PC-L - 1 pc. Sets of display equipment and visual aids: multimedia applications for lecture courses and practical sessions, interactive teaching and visual aids.	191023, St. Petersburg, Griboedova canal, 30-32, lit. A, B, P

7. METHODOLOGICAL GUIDELINES FOR STUDENTS

The following documents should be made available to the trainee before the start of the course:

- training and methodological documentation;
- local normative acts regulating the main issues of the organisation and implementation of educational activities, including those regulating the procedure for current monitoring and interim assessment of students;
- the schedule of consultations of the teaching staff.

The level and depth of mastering the discipline is determined by the active and systematic work of students in lectures, seminars, independent work, including in terms of identifying the most significant and relevant problems for further study. A special condition for qualitative mastering of the discipline is an effective organisation of work, which allows distributing the academic workload evenly in accordance with the schedule of the educational process.

When preparing for classes, students have the opportunity to attend consultations with the staff of UNECON according to the timetable set out in the schedule of consultations.

The students' in- and out-of-classroom work should aim to form:

- the fundamentals of the learner's world view and scientific understanding;
- basic knowledge relevant to the training area and the declared professional field, forming the target and professional basis for training;
- professional competences oriented towards the needs of the labour market;
- an individual trajectory by mastering a unique set of professional competences that complement the learner's competence model, through a focus on specific professional specialised areas of knowledge defined by labour market representatives;
- meta-skills for learners, such as teamwork and leadership, data analysis, digital skills, project design and implementation, intercultural interaction.

8. SPECIFICATIONS FOR TEACHING DISABLED PERSONS

Students with disabilities, if necessary, are taught on the basis of an adapted work programme using special teaching methods and didactic materials that take

into account the particularities of their psychophysical development, individual capacities and health status.

In order for disabled persons and persons with disabilities to master the curriculum, the University shall ensure that:

- for the visually impaired and visually impaired: availability of information on the timetable in accessible places and adapted forms for learners who are blind or visually impaired; presence of an assistant to assist the learner as needed; production of alternative formats of teaching materials (large print or audio files);
- for the hearing-impaired and hearing-impaired: adequate sound reproduction of information;
- for persons with disabilities and persons with mobility impairments: the possibility of unimpeded access for students to classrooms, restrooms and other areas of the department, as well as their stay in these areas.

Learners with disabilities and persons with disabilities are provided with printed and/or electronic educational resources in forms adapted to their disabilities. The education of students with disabilities may be organised with other students or in separate groups or organisations.

ASSESSMENT RESOURCES

1.1 Control tasks and assignments for interim attestation

Is not provided by the work programme of the discipline.

1.2 Topics for written task

Is not provided by the work programme of the discipline.

1.3 Interim checkpoints

Number	Type	Method of conduct	Topic number
1	Control work	with the help of technical means and information systems	1-8
2	Control work	with the help of technical means and information systems	9-16
3	Monitoring	with the help of technical means and information systems	1-17

1.4 Other assessment objects

Is not provided by the work programme of the discipline.

1.5 Self-study

Name of self-study	Topic number
Preparation for lectures and practical classes	1-17
Execution of calculation, analytical, calculation and graphic tasks, etc.	3-5,8,13,15,16
Preparation of messages, reports	9,11,14,17

1.6 Grading scale

Scales of assessment and procedures for assessing learning outcomes of the discipline are regulated by the Regulations on the current control of progress and interim attestation of students in higher education programmes and the Regulations on the scoring and rating system.

A grading and rating system is used to assess the learning outcomes of the discipline:

The final control of the discipline is an examination (or a differentiated test), the final grade being formed in accordance with the scale given in the table below:

Points	Grade
<55	Not passed
>=55	Passed

Grading scale

2 (points to 54)	Demonstrates a lack of understanding of the problem. Many of the requirements of the assignment are not met. An initial perception of the material is demonstrated. The work is incomplete and/or plagiarised.
3 (points 55-69)	Demonstrates a partial understanding of the problem. Most of the requirements of the task have been met. Mastery of the elements of the assigned material. The material is mostly clear and coherent.
4 (points 70-84)	Demonstrates considerable understanding of the issue by the discipline. All requirements of the assignment are fulfilled. The content of the completed tasks is disclosed and examined from different perspectives.
5 (points 85-100)	Demonstrates full understanding of the problem. All requirements of the assignment are fulfilled. Demonstrates proficiency in the discipline. The completed assignments are holistic, complete, structured, present different points of view and demonstrate creativity.