

## Syllabus



### Basics of Life Safety

<b>Lecturer</b>	Kalankhodzkhayeva Umida Rustamovna
<b>Contact Information:</b>	The Department of Philosophy and Social Studies, room 204
<b>Credits:</b>	4
<b>Date:</b>	2020-2021
<b>Purpose and objectives of discipline</b>	The purpose of discipline – to introduce to the students the bases of safe interaction of the human with the environment and bases of protection against the negative factors in different situations The main objectives of the discipline is to master the theoretical knowledge and practical skills necessary to create a safe and harmless conditions of vital functions, forecasting and adoption of competent decisions
<b>Course description</b>	The discipline “Basics of Life Safety” is a general educational compulsory discipline. This discipline equips future professionals with theoretical knowledge and practical skills necessary for creation of safe and harmless conditions for vital function, predicting and making competent decisions in emergencies to protect the population and production personnel of the organizations from possible accidents, natural disasters and the use of modern means of destruction, and during elimination of their consequences.
<b>Prerequisites</b>	The student should be familiar with such disciplines as “physics”, “chemistry”, “mathematics”
<b>Postrequisites</b>	skills of the conscientious and responsible attitude to questions of personal security and safety of people around. <b>When studying a course students have to</b>

	<p><b>know:</b></p> <p>acts of the Kyrgyz Republic in the field of emergency situations;  normative documents in the field of health and safety;  dangers of the human environment;  ways to improve the stability of functioning of the managing objects in emergency situations (ES), and measures to elimination of their consequence;  methods of monitoring of dangerous and extremely dangerous situations;</p> <p><b>be able:</b></p> <p>to control parameters of negative impacts and to estimate levels of negative impacts;  to develop actions for increase of life safety;  to solve situational problems;</p> <p><b>get:</b></p> <p>skills of planning and participation in carrying out rescue and other emergency operations;  skills of using of personal protective equipment;  skills of giving first aid to victims;</p>
<b>Competences</b>	<p>In accordance with the objectives of the GEP and the objectives of the professional activities specified by GES of HPE must have the following competencies:</p> <p><b>As a result of the development of competency GC-1, the student must:</b></p> <p>Know the basics of the system of scientific knowledge about the world around us, able to navigate the values of life and culture. Be able to reveal the meaning of put forward ideas, to present considered scientific problems in development, to compare various scientific knowledge on a specific problem, note the practical value of certain scientific provisions and identify the basis on which the concept or system is based on.</p> <p>Obtain working skills with scientific sources and critical literature searching methods, organize and freely present material and methods for comparing ideas of concepts and eras, to have skills in expressing the substantiation of one’s position regarding</p>

	<p>contemporary socio-philosophical problems about the world, the values of life and culture.</p> <p><b>As a result of mastering the competence of IC-2, a student must:</b></p> <p>Know the basic rules of modern English and speech culture, the characteristic properties of oral and written speech as a means of communication and information transfer.</p> <p>Be able to apply the basic principles of building monological texts and dialogues, be capable of expediently using knowledge of the English language, speech culture and communication skills in professional activities.</p> <p>Effectively own and creatively use the skills of competent writing and speaking, the ability to communicate in professional activities, and cultural speech for an optimal result.</p> <p><b>As a result of mastering the competence of SIC-3, a student must:</b></p> <p>Know the basic laws of the development of society, the essence of citizenship.</p> <p>Be able to navigate the basic life safety methods, to analyze processes and phenomena occurring in society and in nature, to participate in civil life, based on knowledge of social, safety and political concepts and structures of readiness for active and democratic participation.</p> <p>Own the skills of a holistic approach to the analysis of society's problems, the skills of collecting systematization and independent analysis of information about socio-political and economic processes and readiness for active and democratic participation.</p>
<b>Policy</b>	<p>I ask all students to attend regular classes, this will give you the opportunity to do self-study. In addition to illness and other valid reasons, the omissions of the 3 classes will affect the assessment (negatively)</p> <p>Code of Honor: Students should come to the classes prepared. You need to read the given literature and prepare for discussions in the audience. Activity on the class and attendance of the student is noted by the teacher. Cell phones must be switched off during class. Failure to comply with this rule is a violation of ethical conduct.</p>
<b>Methods of teaching:</b>	<p>Through such tools as: Google classroom, AVN 37, Zoom, WhatsApp, Google Drive and Google Disk, YouTube.</p>

	The course delivery method includes video lecture, on-line seminars, group and solo presentation, on-line classroom discussion etc.
<b>Final Control</b>	Exam
<b>Law and Legal Acts:</b>	<p>- The law of the Kyrgyz Republic “On state of emergency.  The Law of the Kyrgyz Republic “On State Control of Turnover of Particular Types of Weapon.  The Law of the Kyrgyz Republic “On Military Situation”  The Law of the Kyrgyz Republic “On Technical Regulation”  Environmental Code of the Kyrgyz Republic  Labor Code of the Kyrgyz Republic  The Law of the Kyrgyz Republic “On countering terrorism”  The Law of the Kyrgyz Republic “On Civil Protection”  Geneva Conventions 1949.  The Code of the Kyrgyz Republic “On public health and health care system”</p>
<b>Main Literature:</b>	<p>1. S.V. Belov, A.V. Ilnitskaya, etc. Life Safety. - 7th ed., M.: Higher School, 2012. - 616 p.  2. Lobachev A.I. Life Safety: A textbook for universities. - M.: Yurayt - Izdat, 2012. - 360 p.</p>
<b>Additional Literature</b>	<p>1. Life safety. Safety of technological processes and production (Labor protection). P.P.Kukin, V.L.Lapin, E.A. Podgorny, etc. - Moscow: Higher School, 2012. - 318 p.  2. Ecology and life safety. D.A. Krivoshein, L.A.Muravei, N.N. Roeva and others - M.: UITITI - DANA, 2000. - 447 p.  3. Life Safety: A Textbook for High Schools / LA Mikhailov, V.P. Solomin and others. - SPb.: Peter, 2007. - 302 p.  4. Danilov-Danilyan. Environmental safety. Common principles and the Russian aspect. - M.: Publishing house MNEPU, 2001. - 332 p.</p>
<b>Additional sources</b>	<p>1. Interactive videos from Educational Sources and YouTube educational channels;  2. BBC’s and National Geographic’s documentaries;</p>
<b>Websites</b>	<p>1. <a href="http://scholar.google.com">http://scholar.google.com</a>  2. <a href="http://citeseerx.ist.psu.edu">http://citeseerx.ist.psu.edu</a>  3. <a href="http://www.getcited.org/">http://www.getcited.org/</a></p>

	<ol style="list-style-type: none"> <li>4. <a href="http://academic.research.microsoft.com/">http://academic.research.microsoft.com/</a></li> <li>5. <a href="http://www.bioline.org.br/">http://www.bioline.org.br/</a></li> <li>6. <a href="http://www.plosone.org/">http://www.plosone.org/</a></li> <li>7. <a href="http://www.bioone.org/">http://www.bioone.org/</a></li> <li>8. <a href="https://www.pnas.org/">https://www.pnas.org/</a></li> </ol>
<b>ISR (CPC)</b>	<ol style="list-style-type: none"> <li>1. Problems of civil defense.</li> <li>2. The principles of civil defense.</li> <li>3. Planning of actions for civil defense and emergency situations at facilities.</li> <li>4. Classification of dangerous and harmful factors.</li> <li>5. Radiation and chemical hazards.</li> <li>6. Dangerous production and household factors.</li> <li>7. Classification of dangers.</li> <li>8. Rationing of the content of harmful substances.</li> <li>9. Chronic poisonings, occupational and household diseases at effect of toxins.</li> <li>10. Ionizing radiation.</li> <li>11. External and internal radiation, doses.</li> <li>12. Action of radiation on a human body.</li> <li>13. Radiation sickness and other diseases.</li> <li>14. The basic principles of radiation safety.</li> <li>15. Classification of radiation facilities by potential danger.</li> <li>16. Protective measures against radioactive contamination.</li> <li>17. Classification of chemically hazardous facilities and chemical emergencies.</li> </ol>

**Calendar-thematic plan for the distribution of hours  
indicating the week and the topic**

№	Date	Topic	Hours	Literature	Module Preparatory Questions

1	01.09.20 - 08.09.20	Introduction to the course "Life safety".	6	The Law of the Kyrgyz Republic "On Civil Protection" Geneva Conventions 1949.	1. What is Life Safety? 2. Definition of "Life", "Life Safety" 3. What is Hazard?
2	09.09.20 - 16.09.20	Human and Environment.	6	The Code of the Kyrgyz Republic "On public health and health care system" S.V. Belov, A.V. Ilnitskaya, etc. Life Safety. - 7th ed., M.: Higher School, 2012. - 616 p. Lobachev A.I. Life Safety: A textbook for universities. - M.: Yurayt - Izdat, 2012. - 360 p. The law of the Kyrgyz Republic "On state of emergency. The Law of the Kyrgyz Republic "On State Control of Turnover of Particular Types of Weapon. The Law of the	1. What is "Human Environment?" 2. Describe the main idea of Technosphere. 3. How can Human influence on Environment?
3	22.09.20 - 29.09.20	Manmade hazards	6		1. What is "Manmade hazard?" 2. Types of Hazard. 3. What is noise?
4	30.09.20 - 07.10.20	Emergency situations (peacetime).	6		1. Emergency situations of Peacetime. 2. Natural Disasters: the classification. 3. Examples on emergencies.
5	13.10.20 - 20.10.20	Consequences of Emergency Liquidation	6		1. What is Emergency Liquidation? 2. Mitigation and Response.

				Kyrgyz Republic “On Military Situation”	<b>3. Stages of Emergency Liquidation</b>
<b>6</b>	<b>21.10.20 – 28.10.20</b>	<b>Emergency situations (wartime).</b>	<b>6</b>	The Law of the Kyrgyz Republic “On Technical Regulation” Environmental Code of the Kyrgyz Republic	1. Classification of WMD 2. Nuclear Weapon. 3. Chemical weapon.
<b>7</b>	<b>03.11.20 – 10.11.20</b>	<b>Protection of the population in emergency situations.</b>	<b>6</b>	Labor Code of the Kyrgyz Republic The Law of the Kyrgyz Republic “On countering terrorism”	1. Emergency response stages 2. What is shelter? 3. Types of shelters
<b>8</b>	<b>11.11.20 – 24.11.20</b>	<b>Occupational Health Psychology. Occupational Health and Safety.</b>	<b>6</b>	Process Safety and Environmental Protection (Journal) – Access: <a href="http://www.journals.elsevier.com/process-safety-and-environmental-protection/">http:// www.journals.els</a>	1. What is job burnout? 2. Chronical diseases. 3. Payments on health because of work accidents
<b>9</b>	<b>25.11.20 – 09.12.20</b>	<b>Basic of First Aid Procedures.</b>	<b>6</b>	<a href="http://www.journals.elsevier.com/process-safety-and-environmental-protection/">evier.com/process -safety-and- environmental- protection/</a>	1. What is Chocking? 2. Burns and the first aid. 3. types of BFAP
<b>1 0</b>	<b>15.12.20 – 22.12.20</b>	<b>Legislation of Kyrgyz Republic</b>	<b>6</b>		1. Constitution of Kyrgyz Republic. 2. Main legal acts in Kyrgyz Legislation.

					3. International Acts in Kyrgyz Legislation.
		<b>Total</b>	<b>60 h</b>		

**The schedule of Independent Students' Research.**

N	Weeks Months	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Total points
		September				October				November				December				
1	Current control	-																40
2	Deadline for ISR	20.09.2020				20.10.2020				20.11.2020				20.12.2020				40

\* ISR - independent students' research.

Note: The schedule for the midterm and final control is set by the Training Department.