

Catalog of elective disciplines

1. Department: «Legal, economic, environmental and scientific knowledge»
2. Level of training -bachelor's
3. Educational program: 6B10115- Medicine; 6B10116- Pediatrics; 6B10117- Dentistry; 6B10118- Medical and preventive care.
4. Course-1
5. Name of the elective discipline- «Legal, economic, environmental and scientific knowledge»
6. Number of credits (at least 5 credits)-5
7. Purpose- To acquaint students with the basic concepts and laws of legal and economic science, with the content of anti-corruption culture, scientific research and ecology; with the tasks and main sections of such disciplines as fundamentals of law, anti-corruption culture, economics, research methods, ecology and life safety.
8. Contents of the discipline (30-50 words)- The concept of the fundamentals of law, anti-corruption culture, economics, scientific research and environmental safety. General questions of the theory of law and economics, anti-corruption culture, methods of scientific research, fundamentals of environmental knowledge. Theory of state and law, formation of anti-corruption culture, fundamentals of economic knowledge, methodology of science, methods of collection, analysis and publication of scientific data, environmental safety of man and society.
9. Tasks- Formation of methods of spiritual and intellectual self-development, legal, economic and environmental literacy, culture of thinking and behavior.
10. Justification for choosing a discipline- This program is designed to provide students with the necessary knowledge, skills and abilities in the discipline, to achieve learning outcomes.
11. Learning outcomes (4-6 learning outcomes according to Dublin descriptors)-
CLO1-Knows and understands the main stages of scientific research and methods of processing scientific data.
CLO2-Demonstrates knowledge and understanding of the system of norms of the Constitution of the Republic of Kazakhstan, the main definitions and categories of the theory of law and the state, the most important norms of sectoral legislation and economic theory.
CLO3-Knows about the measures of legal and moral responsibility for corruption offenses within the framework of the current legislation in the field of anti-corruption.
CLO4-He is able to analyze the economic situation at the micro and macro levels, focusing on the economic laws and patterns of development of the modern economy.
CLO5-Understands the tasks of ecology and life safety and its basic concepts and knows the main factors that have an anthropogenic impact on the health of the population.
12. Prerequisites- The History of Kazakhstan
13. Post-requisites- Philosophy, Psychology and cultural studies, sociology and political
14. Literature:

1. Спандияров, Е. Ғылыми зерттеулер мен инновация негіздері [Мәтін] : оқу құралы / Е. Спандияров. - Алматы : ЭСПИ, 2021. - 116 бет. с.
2. Спандияров, Е. Основы научных исследований и инновации: практическое пособие / М-во образования и науки РК. - Алматы : Эверо, 2013. - 136 с.
- 3.Қазақстан Республикасының мемлекет және құқық негіздері. 1 бөлім : оқу құралы / құраст. А. Н. Ағыбаев. - Алматы : New book, 2022. - 338 бет.
- 4.Қазақстан Республикасының мемлекет және құқық негіздері. 2 бөлім : оқу құралы / құраст. А. Н. Ағыбаев. - Алматы : New book, 2022. - 246 бет.
- 5.Қазақстан Республикасының мемлекеті мен құқығы негіздері. 1 кітап : /құраст. Е. Баянов. - Алматы : New book, 2022. - 384 бет.
- 6.Қазақстан Республикасының мемлекеті мен құқығы негіздері. 2 кітап : /құраст. Е. Баянов. - Алматы : New book, 2022. - 368 бет.
- 7.Экономикалық және құқықтық білім негіздері:оқу құралы / Б. С. Битенова, Л. К. Мағзумова, А. А. Ахатова. - Қарағанды : АҚНҰР, 2019. - 310 бет
8. Газизова Н. С.Құқық негіздері : оқу құралы / Н. С. Газизова. - Алматы : New book, 2022. - 256 бет.

9. Ибрагимов Ж. И. Құқық негіздері : оқу-әдістемелік кешен / Ж. И. Ибрагимов. - Алматы : New book, 2022. - 256 бет.
10. Альжанова, А. Н. Основы права учеб. пособие / А. Н. Альжанова, К. К. Райханова. - ; Алматы :Эверо, 2014. - 134 с
11. Таскымбаева, С. М. Основы экономической теории [Текст] :учеб.пособие / С. М. Таскымбаева, Ф. М. Каратаева. - Караганда : АҚНҰР, 2017. - 200 с
12. Николас, Дж. Бизнес және заң. 1т. [Мәтін] :оқулық / Дж. Николас. - 3-бас. - Алматы :Дәуір, 2017. - 468 б. с.
13. Жанысбеков М. А. Основы антикоррупционной культуры : учебно-методическое пособие / М. А. Жанысбеков, Н. А. Абдурахманов, А. С. Еркинбекова. - Караганда : АҚНҰР, 2016. - 198 с.
14. Сыбайлас жемқорлыққа қарсы мәдениет негіздері. Оқу-әдістемелік құралы. М. А. Жанысбеков, Н. А. Абдурахманов, А. С. Еркинбекова. - Караганда : АҚНҰР, 2019. - 192 б.
15. Атикеева С.Н.Экология и устойчивое развитие. Учебное пособие. «Sky Systems» 2021
16. Нуржуманова Ж.М. Виды экологического контроля:учебное пособие «Sky Systems» 2019
17. Архангельский В.И. Гигиена и экология человека:М.:ГЭОТАР-Медиа,2013
18. Кенесариев У.И. экология и здоровье населения : учебник для мед. вузов и колледжей Алматы: Эвро, 2020
19. Имашева Б.С. Социальная экология и устойчивое развитие –Алматы:Эвро, 2020

1. Department: «Hygiene and epidemiology»

2. Level of preparation (bachelor's / internship / master's / residency)

3.Speciality: «Medico-preventive medicine»

4. Course: 1

5. Name of elective discipline: «Ecology and Life Safety»

6. The number of credits - 5

7. Purpose: Unified understanding and existence of the basic laws of sustainable development of nature and society. Knowledge in the field of safety, formation of skills of work, scientific analysis and its practical application.

8. Tasks:

- Indicators of various organism systems as criteria of environmental assessment for ecological safety of the society;
- the role of an indicator in the totality of environmental forces in conditions affecting health (radionuclides, mineral fertilizers, electromagnetic fields, pesticides, etc.);
- ecological aspects of human exposure to negative or positive environmental factors;
- assessment of the potential of medical and social ecological landscapes;
- creation of ecological security of the society;

9. Justification of the choice of discipline: The place and role of ecology in solving modern economic and political problems. Autecology, demecology and synecology. Types of terrestrial and aquatic ecosystems. The doctrine of biosphere and noosphere. Natural resources and rational use of nature. Nature protection and modern problems of ecology. Problems of ecological development. The concept of sustainable development. Organizational bases of life support. Emergencies in peacetime and wartime. Assess the situation. Features of accidents and disasters at radiation and chemically hazardous facilities. Protection of the people. Medical assistance to the evacuated population. Tasks and organization of the emergency medical aid service. Organization of sanitary-hygienic and anti-epidemic measures. Organization and planning of medical supplies. Психологические аспекты ТЖ.

10. Learning outcomes (competencies):

Knowledge (cognitive sphere)	Skills and abilities (psychomotor sphere)	Personal and professional competencies (relationships)
- knows the current problems of the branch of ecology and life safety	- as one of the methods of solving professional issues can	- knows the functioning of organizational and economic aspects

<p>from the point of view of interrelation and interdependence of the tasks of ecology and life safety development and its basic concepts, acquired knowledge with other social spheres and legislative requirements;</p> <ul style="list-style-type: none"> - knows forms and methods of research of ecological safety of society; - knows departments of ecological safety of society; - knows environmental factors that have a harmful effect on the human body, their classification; - knows free risk factors; - knows the terminological and conceptual basis of ecology of society; - knows global and regional aspects of ecological safety of society; - knows the methodological principles - knows the dangers of environmental influences and their harm to health; - knows the importance of environmental safety of practical society;- knows the importance of environmental safety of practical society; - knows the impact of polluted atmospheric air on human health and living conditions, - knows the impact of environmental pollution of the lithosphere on human health; - knows the importance of environmental safety of practical society; - knows the influence of polluted atmospheric air on human health and living conditions, - knows the impact of environmental pollution of the lithosphere on human health; - understands environmental pathology, knows the causes of its development; 	<p>use knowledge of the laws of interaction of the organism and ecological safety of the society;</p> <ul style="list-style-type: none"> - can assess the interrelationship of environmental factors and their impact on public health; - environmental pollution, public health, atmospheric air, hydrosphere, lithosphere. - can determine the level of exposure; - can identify anthropogenic factors that can affect environmental objects; - may provide information obtained by searching and processing to other users. Classification of pharmaceutical production by type and quantity of waste generated. Knows how to reduce waste generation, ventilation emissions, harmful wastewater discharges; -knows the methods of scientific inquiry and academic writing and is able to apply them to the field of study. - knows facts, phenomena, theories, and the complex relationships among them in the field of study. - Is able to assess the environmental security of society's facilities and analyze the causes of disease development among individuals and populations; - can assess the quality of environmental security of society's facilities and the possible impact of anthropogenic factors on the environment and the health of residents. - can analyze the state of the ecological fund and human gene pool and organize measures to improve it; 	<p>in the field of protection of environmental safety of the society;</p> <ul style="list-style-type: none"> - knows general methods of ecological research; - can predict the quality of public health care - collects, processes and analyzes and critically evaluates and issues the introduction of new technologies, new equipment, on the expansion of the range of products can conduct research/experimental work.
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11. Prerequisites: Molecular biology and medical genetics, basic physiology.

12. Post requisites: Clinical epidemiology, an introduction to the clinic.

13. Literature:

1. Atikeeva S.N. Ecology and Sustainable Development. Textbook. "Sky Systems" 2021
2. Nurzhumanova J.M. Types of environmental control: textbook "Sky Systems" 2019
3. Arkhangel'sky V.I. Hygiene and human ecology: M.: GEOTAR-Media, 2013
4. Kenesariyev U.I. Ecology and health of the population : textbook for medical universities and colleges Almaty:

