Catalog of elective disciplines for the 2023-2024 academic year

1. Department: "Department of History of Kazakhstan and Social and Social disciplines»

2. Level of training: Doctorate

3. Bilim bagdarlamalary: D141 - "Medicine"

4. Course: 1

5. Name of elective discipline: Educational technologies in universities

6. Number of credits : 4 credits

7. Objective: To acquaint doctoral students with the educational technologies of the university and master the competencies of their application in the educational process. The ability of doctoral students to combine pedagogical knowledge with general theoretical and practical knowledge, skills in pedagogy, knowledge gained in teaching general medical disciplines, the formation of new pedagogical thinking, competencies of pedagogical activity.

8. Tasks: To reveal the role and place of educational technologies in higher education in increasing the efficiency of the educational process;

- Analysis of the essence and integration of learning technologies into vocational education;

- Analysis of the features of the use of modern educational technologies in the medical education system;

- analysis of effective methods and techniques of teaching and their application in the educational process;

- to propose the main ways to improve educational technology and its practical application.

9. Content of the discipline: Goals and objectives of studying the subject "Educational technologies in higher education", its role and importance in teacher training. The importance and significance of innovative technologies in vocational education. The history of the emergence of educational technologies and the future development of educational technologies. The concept of individualization and differentiation of education. Personalization of training. Fundamentals based on personalized learning technologies. General characteristics of differentiated learning. Three-dimensional methodical training system. Essence and methodological aspects of three-dimensional pedagogical teaching technology. Individual - the concept of adaptive learning (education). Technology of profile education. Technology of critical thinking. Ideas and principles of pedagogical cooperation. Modular learning technology. Description of information technologies of instruction.

Concept, goals, objectives of distance learning, didactic functions and properties of computer technologies based on distance learning. Development of teaching technology. The main functions and features of problem learning.

10. Justification of the choice of discipline: This program is designed to provide doctoral students with the necessary knowledge, skills and abilities in the discipline, to achieve learning outcomes. In the context of distance learning, the Program is implemented through the automated information system Platonus (hereinafter-AIS Platonus), Zoom, Webex, etc.. For the development of the discipline, the materials that are included in the "Task" module of the Platonus AIS are used.

11. Learning outcomes:

1) demonstrates leadership, innovation and individuality in solving complex problems of the educational process and professional activity;

2) critically perceives the pedagogical concepts of educational technologies in higher education in connection with the world-historical development of mankind;

3) formulates the essence of educational technologies from the point of view of critical thinking;

4) analyzes the use of educational technologies in the educational process and ways to improve it and offers his opinion to the scientific community and society;

5) the ability to apply the features of the use of educational technologies in the educational process in the practice of higher and postgraduate education.

11. Prerequisites: Higher education pedagogy

12. Post-requirements: Research and teaching practice.

13. Literature:

in English: Main:

1.Pedagogy [Tekct] : textbook / K. K. Zhampeisova [and etc.]. - Almaty : Association of highereducational in stitutions of Kazakhstan, 2016. - 390 p.

Additionalinformation:

1. Educational management [Tekct] : textbook / A. N. Kosherbayeva [and ect.]. - Almaty : [s. n.], 2016.

Electronic source databases:

- 1 ОҚМА Репозиторийі http://lib.ukma.kz/repository/
- 2 Республикалық жоғары оқу орындары аралық электрондық кітапхана http://rmebrk.kz/
- 3 «Aknurpress» сандық кітапхана https://aknurpress.kz/login
- 4 «Заң» нормативтік-құқықтық актілер базасы https://zan.kz/ru
- 5 «Параграф Медицина» ақпараттық жүйесі https://online.zakon.kz/Medicine/
- 7 Научная электронная библиотека https://elibrary.ru/
- 8 Ашық кітапхана https:// kitap.kz/
- 9 Thomson Reuters www.webofknowledge.com
- 10 ScienceDirect http://www.sciencedirect.com/
- 11 Scopushttps://www.scopus.com/
- 1. The Department: Biology and Biochemistry
- 2. Program: doctoral student
- 3. Specialty: Medicine
- **4. Year:** 2
- 5. Name of the elective disciplines: Project management
- 6. Number of academic credits: 8
- 7. Goal:

Project management is a methodology for achieving success using modern scientific methods to achieve optimal results in terms of cost, time and quality, as well as meeting the interests of all project participants. In other words, the art of leadership in coordinating the efforts of people and using resources.

8. Objectives:

• To give doctoral students stable ideas, knowledge, skills and abilities in the disciplines that determine the direction (profile) of doctoral students training;.

• To study the real place of the disciplines that determine the direction (profile) of doctoral students' training in the modern practice of making managerial and clinical decisions, as well as in the process of implementing research and practical programs;

• To give doctoral students an understanding of the possibilities of using the tools of disciplines that determine the direction (profile) of doctoral students' training in solving complex interdisciplinary, intersectoral problems in the field of professional activity;

• To provide doctoral students with fundamental knowledge at the intersection of sciences, guaranteeing them professional mobility in the real developing world.

• work with scientific literature and electronic biomedical databases. 9. Justification of the choice of discipline:

- Solve research problems, relying on the principles of civilized, cultorological and informational approaches to the analysis of the studied processes;
- Set goals and formulate tasks related to the implementation of professional functions.
- Make management decisions in the framework of their professional activities based on the principles of evidence-based medicine;
- Possess the principles and modern methods of operations management in various fields of activity;
- Forecast the results of your professional activity; control the work process and objectively evaluate

its results;

 Solve complex interdisciplinary, intersectoral problems in the field of professional activity.

10. Learning outcomes (competencies)

The main stages of research, substantiation of the application of the project approach.Scientific and research programs by funding sources: budgetary scientific and technical progress (program-targeted and grant financing, innovative projects).student conferences, etc.Research methodology and design. Research protocol.Scientific and research programs by funding sources: budgetary scientific and grant financing, innovative projects).student conferences, etc.Research methodology and design. Research protocol.Basic principles of scientific projectstudent conferences, etc.	tically
ResearchPlanningin national law in the field of scientific research. New approaches to the regulation of biomedical research, adopted within the framework of the new Able to defend their judgments in prace exercises, at meeting the field of science.The main stages of research, substantiation of the application of the project approach. Research protocol.Scientific and research programs by grant financing, innovative projects). Search and attraction of grants from methodology and design. Planning a research project.Scientific project scientific project as an object of management.Scientific project Statement of the indicators of the research project, Development of indicators of research.When valuent cite analyze the results educational experime Able to defend their judgments in prace exercises, at meeting student scientific scientific and research programs by grant financing, innovative projects). Search and attraction of grants from methodology and design. Planning a research project.Scientific project scientific projectScientific project facts and phenom their ca scientific project statement of the problem, definition of the goal and objectives of the research project, to make a colled decision.	tically
-	r own actical ngs of circle, entific and aining able to served mena, causal team, ective er to chers, the in the

effectiveness of investment	Project life cycle and phases Project	
projects.	environment. Functions, subsystems and	
Analysis of the project in	methods of project management.	
terms of both risk and	Evaluation of the effectiveness of	
uncertainty.	investment projects. Project planning	
Structuring the project and	concept. Planning the subject area of the	
design estimates.	project. Planning the timing of the	
Material and technical	project.	
preparation of the project.	Methods for assessing the effectiveness	
Types of contracts.	of the project. Categories and types of	
e	efficiency. Efficiency assessment	
disadvantages.	scheme.	
÷	Planning principles. Planning the scope	
for building network	of the project. Basic and auxiliary	
models.	planning procedures.	

11. Prerequisites:

12. Post requisites:

13.Literature:

Main literature:

- Надлежащая практика научных исследований. <u>Койков Виталий Викторович</u>, <u>Дербисалина</u> <u>Гульмира Ажмадиновна</u>
- Гэмбл, Д. Э. Стратегиялық менеджмент негіздері:бәсекелік артықшылыққа ұмтылу = Essentials of strategic management : оқулық / Д. Гэмбл, М. Питереф, А. Томпсон ; Қаз. тіл ауд. Ж. Кушебаев. - 5-ші бас. - Алматы : Ұлттық аударма бюросы, 2019. - 536 бет.
- Шиллинг, M.А. Технологиялық инновациялардағы стратегиялық менеджмент = Strategic management of technological innovation : оқулық / М.А.Шиллинг ; Қаз. тіл ауд С. Зиядин [және т.б.]. - 5-ші бас. - Алматы : Ұлттық аударма бюросы, 2019. - 380 бет.
- Сыздыкова, К. Ш.
 Менеджмент в здравоохранении : учебное пособие / К. Ш. Сыздыкова, А. Р. Рыскулова, Ж. С. Тулебаев. - Алматы : ИП Изд-во "Ақнұр", 2015. - 236 с.
- Татарников, М. А. Управление качеством медицинской помощи / М. А. Татарников. М. : ГЭОТАР Медиа, 2016.
- Educational management : textbook / A. N. Kosherbayeva [and ect.]. Almaty : [s. n.], 2016. 306 p.
 - 1. The Department: Biology and Biochemistry
 - 2. Program: doctoral student
 - 3. Specialty: Medicine
 - 4. Year: 1
 - 5. Name of the elective disciplines: Scientific communication: oral and written
 - 6. Number of academic credits: 4
 - 7. Goal:

Scientific speech is not only a means of mastering certain information, but also a means of its implementation in specific activities, such as writing scientific papers, reports and presentations at seminars and conferences, participation in scientific discussions, scientific reviewing.

Objectives:

• Scientific communication is a process and mechanism for the dissemination of scientific knowledge about the surrounding reality within the scientific community and in society as a whole.

• Scientific communication is carried out using various channels, means, forms and institutions of communication. Their specific list determines the stage of implementation of scientific communication:

• The first (internal) stage of scientific communication is communication between scientists within the scientific community on the approval of a scientific idea;

• The second (external) stage of scientific communication consists in interaction with a wide audience of the scientific community, which translates scientific knowledge into the mass consciousness.

• At the internal stage, scientific communication is realized directly within the scientific community. Usually it can be formalized in the form of oral reports, face-to-face scientific discussions, seminars, scientific publications, scientific conferences, scientific and technical exhibitions, etc. As a result of the implementation of two stages of scientific communication, the process of popularizing science should be launched. That is, the scientific community, possessing the necessary special knowledge, acts as a keeper and translator of science to the general public. At this stage, the media, which are represented by popular science magazines, blogs, television programs, scientific electronic libraries, various exhibitions, science festivals, etc., act as an intermediary of communication between scientists and society as a whole. Scientific communication can be successful only in the case of appropriate adaptation of the language of information delivery. In addition, the emphasis should be on performance, utility and predictions (rather than the empirical part of the research).

9. Justification of the choice of discipline:

- Solve research problems, relying on the principles of civilized, cultorological and informational approaches to the analysis of the studied processes;
- Set goals and formulate tasks related to the implementation of professional functions.
- Make management decisions in the framework of their professional activities based on the principles of evidence-based medicine;
- Possess the principles and modern methods of operations management in various fields of activity;
- Forecast the results of your professional activity; control the work process and objectively evaluate its results;
- Solve complex interdisciplinary, intersectoral problems in the field of professional activity.

N⁰	Knowledge (cognitive	Skills and skills (psychomotor sphere)	Personal and
	sphere)		professional
			competencies
			(relationships)
	Scientific discourse.	Discourse concept. Scientific discourse as	Able to present their own
	Stylistics and pragmatics	a kind of status-oriented discourse. Key	judgments and critically
	of scientific discourse.	concepts of scientific discourse. The goals	analyze the results of
	The structure of the	of scientific communication. Strategies for	educational experiments.
	scientific text.	scientific discourse. Genres of scientific	Able to defend their own
	The principles of the	discourse Precedent texts. Discursive	judgments in practical
	formation of the	formulas.	exercises, at meetings of
	terminology of the	Scientific style as one of the main	the student circle,
	scientific text.	functional styles of the Russian language.	student scientific
	Definitions.	General characteristics of the scientific	conferences, etc.
		style. Scope of use and functions. Style-	

11. Learning outcomes (competencies)

The grammar of the	forming factors. Linguistic features of	When planning and
scientific text.	scientific texts: lexical, phraseological,	1 0
Rhetoric of scientific		0
	morphological, syntactic. Varieties of	*
discourse. General	scientific style. Subtypes: proper scientific,	-
information about	scientific business, popular science,	facts and phenomena,
science.	educational scientific, scientific	their causal
Methodological	journalistic. Genres of scientific speech.	relationships.
foundations of scientific	Pragmatic characteristics of the scientific	Able to work in a team,
knowledge.	style. Stable text categories in relation to a	to make a collective
Organization of research.	scientific text 1) coherence; 2) structure; 3)	decision.
	integrity; 4) modality. Logical-	Able to transfer to
	compositional structure of a written	students, teachers,
	scientific text. Pragmatic clichés in the	examiners the
	design of the structural parts of a scientific	knowledge gained in the
	text. The introductory part of the scientific	process of studying the
	text itself. The specifics of the formation of	discipline.
	the main part of the scientific text. Types of	
	scientific text conclusions. Principles of	
	rubrication of a scientific text. Quotes and	
	links.	

- Prerequisites:
 Post requisites:
 Literature:
 Main literature:
- Введение в профессию врача. Основы клиники, права, этики и коммуникации : учебник / М. А. Асимов, Г. О. Оразбакова. - Қарағанды : АҚНҰР, 2019. - 244 с.
- Дәрігер мамандығына кіріспе. Клиника,құқық, этика және коммуникация негіздері : оқулық / М.А. Асимов [және т.б.]. 2-ші бас. Қарағанды : АҚНҰР, 2019. 232 бет.
- Спандияров, Е.
 Основы научных исследований и инновации : практическое пособие / Е. Спандияров ; Мво образования и науки РК. - Алматы : Эверо, 2013. - 136 с.
- Принципы планирования и проведения исследований в сестринском деле : учебное пособие / Г. А. Дербисалина [и др.]. Караганда : АҚНҰР, 2020.
- Мейіргер ісіндегі зерттеулерді жоспарлау және жүргізу принциптері : оқу құралы / Г. Ә. Дербісалина [т. б.]. - Қарағанды : АҚНҰР, 2020. - 150 б.
- А.С. Кадыров, И.А. Кадырова, Ж.Ж.Жунусбекова Ғылыми зерттеулер негіздері: оқу құралы. "АҚНҰР" 2017 (ЭБ)
- Zammitt,

Essentials of Kumar Clarks clinical medicine : textbook / N. Zammitt, A. O Brien. - 6th ed. - Philadelphia : Elsevier, 2018. - 889 p.

N.

- 1. The Department: Biology and Biochemistry
- 2. Program: Doctorate
- 3. Specialty: Medicine
- **4. Year:** 1
- 5. Name of the elective disciplines: Modern methods and principles of scientific research
- 6. Number of academic credits: 4
- 7. Goal:
- development of doctoral students' knowledge and skills of independent planning, conducting and evaluating the results of scientific research.
- clearly and clearly apply the acquired communication skills for the implementation of the dissertation research (substantiation of the topic of the dissertation, its design, publication, dissemination of research results) with specialists and non-specialists;
- knowledge of the methods and means used in scientific research can significantly facilitate the scientific training of a doctoral student, initiate his ability for further independent continuation of education.

Objectives:

- To give doctoral students stable ideas, knowledge, skills and abilities in the disciplines that determine the direction (profile) of training doctoral students;
- To study the real place of the disciplines that determine the direction (profile) of doctoral students' training in the modern practice of making managerial and clinical decisions, as well as in the process of implementing research and practical programs;
- To give doctoral students an understanding of the possibilities of using the tools of disciplines that determine the direction (profile) of doctoral students' training, in solving complex interdisciplinary, inter-sectoral problems in the field of professional activity;
- To provide doctoral students with fundamental knowledge at the intersection of sciences, guaranteeing them professional mobility in the real developing world. **Justification of the choice of discipline:**
- Solve research problems, relying on the principles of civilized, cultorological and informational approaches to the analysis of the studied processes;
- Set goals and formulate tasks related to the implementation of professional functions.
- Make management decisions in the framework of their professional activities based on the principles of evidence-based medicine;
- Possess the principles and modern methods of operations management in various fields of activity;
- Forecast the results of your professional activity; control the work process and objectively evaluate its results;
- Solve complex interdisciplinary, intersectoral problems in the field of professional activity.

Learning outcomes (competencies)

N⁰	Knowledge (cognitive	Skills and skills (psychomotor sphere)	Personal and
	sphere)		professional
			competencies
			(relationships)
	Fundamentals of national	Science is focused on understanding the	Able to present their
	and international law in	essence of objects and processes.	own judgments and
	the field of scientific	Science operates with specific methods and	critically analyze the
	research: QPBR, GLP,	forms, research tools.	results of
	GLP, GCLP, etc.	Scientific knowledge is characterized by	educational
	Scientific research in	planning, consistency, logical organization, and	experiments.
	medicine.	the validity of research results. Science has	

Scientific and research	specific ways to substantiate the truth of	Able to defend their
programs by funding	knowledge.	own judgments i
sources.	Scientific research in medicine, as in the field	practical exercises
Search and attraction of	of other sciences, can only be carried out by	at meetings of th
grants.	people who are honest and principled, truly	student circle
Key components and	devoted to the cause they serve. Such an act of	student scientifi
stages of scientific	a scientific supervisor is also immoral when he	conferences, etc.
research.	agrees or insists on the fact that in a scientific	When planning an
Classification of research	publication (monograph, article, abstracts,	conducting trainin
in public health.	reports, etc.), in the part where the name of the	experiments, he i
Qualitative Research in	true author of the scientific work appears, the	able to explain th
Public Health.	names of false co-authors are put next there are	observed facts an
Panel studies and trend	individuals who did not participate in the	phenomena, the
studies in public health.	scientific research.	causal relationships
The reasons for the		Able to work in
unreliability of the	Industry and business often participate in	
research results:	government funding for research projects. Also,	team, to make collective decision.
systematic and random	the municipality is a significant structure in the	
errors. Unfair research	financing of scientific research, participating	Able to transfer t
practice.	openly in financing regional development	students, teacher
Recommendations for	projects.	examiners th
writing an article.	These Rules for the submission of applications	knowledge gained i
Critical analysis of	for attraction of related grants determine the	the process of
scientific articles in	procedure for submission of applications for	studying th
biomedicine.	attraction of related grants by central state	discipline.
bioinedicine.	bodies, taking into account applications from	
	local representative and executive bodies to the	
	central authorized body for state planning.	
	Choosing a research topic. Definition of the	
	object and subject of research. Defining goals	
	and objectives. Wording of the title of the work.	
	Development of a hypothesis. Drawing up a	
	research plan. Working with literature.	
	Selection of research methods. The	
	organization of the conditions of the study.	
	Conducting research (collecting material).	
	Processing of research results. The formulation	
	of conclusions. The design of the work.	
	Cross-sectional studies.	
	Cohort studies	
	Case-control studies.	
	Experimental research.	
	Environmental (correlation) studies.	
	Qualitative research in medicine.	
	-	
	Panel studies and trend studies in medicine.	

Definition, scope, types of cohort study.	
Definition, types of systematic errors, types of	
random errors, their impact on the result, ways	
to minimize errors.	
The main criteria for writing a scientific article,	
work plan, structure, recommendations for the	
presentation of the material, the choice of a	
scientific journal.	
Work with research checklists of various	
designs in biomedicine.	

Prerequisites: Post requisites: Literature:

- Койков, В. В. Надлежащая практика научных исследований: Избранные вопросы методологии биомедицинских исследований и исследований в медицинском образовании : исследование / В. В. Койков, Г. А. Дербисалина. - Караганда : АҚНҰР, 2014. - 140 с.
- Спандияров, Е. Основы научных исследований и инновации : практическое пособие / Е. Спандияров ; М-во образования и науки РК. Алматы : Эверо, 2013. 136 с.
- Принципы планирования и проведения исследований в сестринском деле : учебное пособие / Г. А. Дербисалина Караганда : АҚНҰР, 2020.
- Мейіргер ісіндегі зерттеулерді жоспарлау және жүргізу принциптері : оқу құралы / Г. Ә. Дербісалина - Қарағанды : АҚНҰР, 2020. - 150 б.
- А.С. Кадыров, И.А. Кадырова, Ж.Ж.Жунусбекова Ғылыми зерттеулер негіздері: оқу құралы. "АҚНҰР" 2017 (ЭБ)