Syllabus

Department of Social Medical Insurance and Public Health
Working curriculum of the discipline "Fundamentals of Scientific Research"
Educational program 6B10101 "General Medicine"

1.	**General information about the discipline**		
1.1	Discipline code ONI 5201	1.6	School year: 2023-2024
1.2	Title of Discipline: "Fundamentals of Scientific Research"	1.7	Course:5
1.3	Prerequisites: Propedeutics of internal medicine; pharmacology-1,2.	1.8	Semester: 9
1.4	Post-requisites: Emergency medicine-2; oncology and radiology.	1.9	Number of credits (ECTS):5
1.5	Cycle: BD	1.10	Component: UC

2.	**Description of the discipline (maximum 50 words)**
	Scientific research - definition, goals and objectives. Methodology and methods of scientific research, as well as ways of their organization. Preparatory stage of research work. The main sources of scientific information, their analysis and processing. The concept of scientific ethics. Formulation of conclusions of scientific research. Methods of formalizing the results of research in the form of abstracts, reports or articles on the results of scientific research.

3.	**Summative evaluation form**		
3.1	Testing	3.5	Coursework
3.2	Written +	3.6	Essay
3.3	Oral	3.7	project
3.4	OSPE/OSCE or practical skills intake	3.8	Other (specify)

4.	**Objectives of the discipline**
	To give the trainees a scientific direction, to choose the topics of research work. Identify sources of scientific information for students, explain the planning of research work.

5.	**Learning Outcomes (LOs of the discipline)**	
CLO1	Demonstrates knowledge of science and its classifications, knows the methodological foundations of scientific knowledge. Understands the main types of conducting research work. Knows the features of theoretical and experimental research. Possesses knowledge of the method and methodology of scientific research.	
CLO 2	Knows the methods of summarizing research results, requirements for preparation of scientific report, scientific article, report and presentation materials, knows the organization of science management in research institutions	
CLO 3	Is able to search for new information when working with educational, general scientific and specialized literature, knows the main results of the latest research published in leading professional journals	
CLO 4	Demonstrates own knowledge and skills in conducting scientific research; ability to conduct a literature search and analyze scientific articles in independent study of the discipline; ability to work in a team environment	
5.1	ROs of the discipline	Learning outcomes of the OP, with which the discipline RLs are linked
	CLO 1	CLO 1 Demonstrates knowledge and understanding of biomedical sciences for diagnosis, treatment, and dynamic follow-up for the most common diseases in children
	CLO 3	CLO 9 Proficient in information technology, uses health information effectively to implement new approaches within the scope of his/her qualification
	CLO 2 CLO 4	CLO 10 Applies scientific principles, methods and knowledge in medical practice

		and research. Capable of continuous self-education and development

6.	**Detailed information about the discipline**					
6.1	Venue (building, auditorium): Al-Farabi, 3, educational building No. 4 of JSC SKMA, 2nd floor, aud. 1-12. Phone: 408222 (ext. 121). www.ukma.kz					
6.2	Number of hours	150	Lectures	Practical lesson	SIW	SIWT
			15	35	70	30
7.	**Information about teachers**					

№	Full name	Degrees and position	Email	Research interests, etc.	Accomplishments
1.	Magay Lyubov Nikolaevna	Educator, master	magai_lyubov@mail.ru	"Medical and social aspects of the organization of medical care for the elderly population (on the example of Shymkent city)".	He has authored 7 articles.
2.	Elena Viktorovna Pavlova	Educator	lena601985@mail.ru	Current health care issues.	He has authored 10 articles.
3.	Mizamov Dauren Mukhtaruly	Teacher, Master's degree	dauren903@mail.ru	Current health care issues.	He has authored 10 articles.

8.	**Thematic plan**					
Week/. day	**Subject title**	**Summary**	**Discipline ROs**	**Number of hours**	**Forms/ methods /. learning technologies**	**Forms/. evaluation methods**
1-day	Lecture. The concept of science. Classification of sciences	The concept of the term science and its classification. Definition of the purpose of science in the cognition of the objective world by identifying the essential aspects and interrelationships of the phenomena of nature, society and thinking.	CLO 1	1	Introductory	Feedback questions
	Practical lesson. Carrying out research work.	Types of research work, classification of scientific research depending on the sources of funding.	CLO 1	3	Training cases, question and answer	Assessment interview using a checklist
	SIWT. SIW. Stages of research work.	Definition of stages of research work and their types.	CLO 1	2/5	Report, presentat	Evaluation criteria for

					ion, test preparation	independent work of students
Day 2	Lecture. The concept of method and methodology of scientific research.	Definition of scientific research methods, a set of methodology.	CLO 1	1	Review	Feedback questions
	Practical lesson. Scientific direction, scientific problems and research works.	Determination of the direction of scientific work, proper formulation of the scientific problem. Prerequisites for research work	CLO 1	3	Training cases, TBL	Assessment interview using a checklist
	SIWT. SIW. Induction, deduction, modeling	Distinguishing induction from deduction, definition of scientific induction methods, modeling methods	CLO 1	2/5	Report, presentation, test preparation	Evaluation criteria for independent work of students
Day 3	Lecture. Information on theoretical and experimental studies	The purpose of theoretical research is to highlight the essential links between the object under study and the environment in the process of knowledge acquisition, to interpret and generalize the results of empirical research, to identify general regularities and formalize them.	CLO 1	2	Problematic	Feedback questions
	Practical lesson. Purpose, tasks and some features of theoretical and experimental studies	Define the objectives of the theoretical and experimental studies Define the objectives of the theoretical and experimental studies	CLO 1	3	Training cases. question and answer	Assessment interview using a checklist
	SIWT. SIW. Idealization, formalization, axiomatic method	Idealization, formalization, axiomatic method, hypothesis and conjecture, theory-defining research methods, their distinction among themselves	CLO 1	3/3	Report, presentation, test preparation	Evaluation criteria for independent work of students
4-day	Lecture. Preparatory stage of research work	Before starting the research work, determine its main goals,	CLO 2	1	Problematic	Feedback questions

		objectives, develop a model of work				
	Practical lesson. Selecting the topic of the research work	The choice of the topic of research work should be relevant to the present day, in demand for society	CLO 2	3	Training cases. RBL	Assessment interview using a checklist
	SIWT. SIW. Methodology of planning research work	Organization of the research and development plan. Development of plans for targeted integrated programs, long-term scientific and scientific-technical programs	CLO 2	2/5	Report, presentation, test preparation	Evaluation criteria for independent work of students
5-day	Lecture. Main sources of scientific information	Knowledge of sources of scientific information, concept of monographs, collections of scientific papers, dissertation abstracts	CLO 3	1	Problematic	Feedback questions
	Practical lesson. Study of sources of scientific information - PubMed - Medline - Scopus	Study of information sources scientific study of the list (card index) of Internet sources, textbooks, manuals, monographs, magazine and newspaper articles	CLO 3	3	Training cases. RBL	Assessment interview using a checklist
	SIWT. SIW. Literature review for a scientific article: - Meta-analysis	Analyze existing materials and form a new approach to the problem; Verify the results and conclusions of their own research; Demonstrate the difference between the author's research and already printed works, i.e. demonstrate scientific novelty and scientific contribution;	CLO 4	2/5	Report, presentation, test preparation	Evaluation criteria for independent work of students
6-day	Lecture. Processing of scientific information.	Processing scientific information requires finding materials from credible sources, it should be a hot topic today	CLO 4	2	Problematic	Feedback questions
	Practical lesson. Scientific documents and publications. Types of primary, secondary, tertiary information	The concept of scientific documents. The difference between a scientific document and publications. Types of primary and secondary information	CLO 4	3	Training cases. Case-study	Assessment interview using a checklist

Day 7	SIWT. SIW. Information and Reference Systems: - Web of science - Google Scholar	- National Center for Scientific and Technical Information (NCSTI) - Interstate rubricator of scientific and technical information (MGRSTI) Universal Decimal Classification (UDC) Library and Bibliographic Classification (LBC)	CLO 3	3/3	Report, presentation, test preparation	Evaluation criteria for independent work of students
	Lecture. Methodology of formalizing the results of the research in the form of scientific papers	Determination of methods for formalizing the results of research work	CLO 4	1	Problematic	Feedback questions
	Practical lesson. Scientific results and their publications, passing anti-plagiarism (Turnitin, antiplagiat.ru, NCSTE)	Identify types of scientific results. Publishing the importance of disseminating scientific results within the scientific community and to the general public	CLO 3	3	Training cases. RBL	Assessment interview using a checklist
	SIWT. SIW. Work on the article. Compilation and design of the list of used literature	The main purpose of the work. The difference of this work from other works on this topic and its novelty.	CLO 3	2/5	Report, presentation, test preparation	Evaluation criteria for independent work of students
8-day	**Routine control-1**				**Testing/ MSQ**	
	Lecture. Fundamentals of science ethics	Definition of the concept of scientific ethics. Basic principles of the ethics of the scientific community	CLO 4	1	Problematic	Feedback questions
	Practical lesson. Norms of scientific ethics	Norms governing daily scientific activities, norms governing relations and cooperation between partners	CLO 4	3	Training cases. TBL	Assessment interview using a checklist
	SIWT. SIW. Violation of scientific ethics	Violation of scientific ethics: - making a false statement as a result of willful or extreme negligence in an important scientific communication; - copyright infringement; - causing other	CLO 4	2/5	Report, presentation, test preparation	Evaluation criteria for independent work of students

		people's scientific work to harm the scientific work of others				
9-day	Lecture. Organization of scientific work in higher educational institutions	Organization of management in research institutions, approval of the organizational structure of institutes and laboratories, exercise of rights and duties of heads of research organizations	CLO 2	2	Review Problematic	Feedback questions
	Practical lesson. Management of research institutes	Determination of the structure of research institutes, implementation of organizational functions.	CLO 2	3	Training cases. Case-study	Assessment interview using a checklist
	SIWT. SIW. Carrying out research work in higher education institutions	Carrying out scientific research in higher educational institutions with the specified purpose: - development of theoretical problems; - solution of the most relevant socio-economic problems; - creation of textbooks and teaching aids.	CLO 2	3/3	report, presentation, test preparation	Evaluation criteria for independent work of students
10-day	Lecture. Internship of university professors	Identification of the main types of training in the system of professional development and retraining.	CLO 2	1	Problematic	Feedback questions
	Practical lesson. Training and professional development of scientific and scientific-pedagogical personnel	Professional development (qualification) of teachers. Completion of internships.	CLO 2	3	Training cases. question and answer	Assessment interview using a checklist
	SIWT. SIW. Postgraduate education programs	Structure of master's thesis (projects), Structure of doctoral dissertations.	CLO 2	2/5	Report, presentation, test preparation	Evaluation criteria for independent work of students
11-Day	Lecture. Research work of students	Widespread implementation of research work in higher education institutions will allow students to engage in research work	CLO 2	1	Problematic	Feedback questions

12-Day	Practical lesson. Structure of students' research work	Forms of NIRS training: - educational research (scientific coursework); - laboratory works; - research works performed during Practical lesson; - diploma research works and a specific project; - scientific seminars of students.	CLO 2	3	Training cases. question and answer	Assessment interview using a checklist
	SIWT. SIW. Extracurricular forms of student research work	Research work of students, training of specialists with higher education, professional development of specialists in accordance with the requirements of the market economy.	CLO 2	2/5	Report, presentation, test preparation	Evaluation criteria for independent work of students
	Lecture. Ways to increase students' scientific cognition	The main factors of increasing cognitive activity of students include their awareness of their capabilities, students' work by their own choice, matching them with the requirements and abilities of the teacher; ability to organize independent work, etc.	CLO 4	1	Problematic	Feedback questions
	Practical lesson. Conditions for research work of students	Establishment of sustainable and effective student research activities, teaching principles, scientific research, study of research principles in accordance with international practice	CLO 4	2	Training cases. question and answer	Assessment interview using a checklist
	SIWT. SIW. Participation in conferences and reports	What is a conference? State the order of its subscription. The order of the report formatting.	CLO 1	3/3	Report, presentation, test preparation	Evaluation criteria for independent work of students

Day 13	**Routine control -2**			2/5	**Testing/ MSQ**	

Preparation and conduct of interim certification	*15 hours*

9.	**Teaching methods**	
9.1	Lectures	Introductory, overview, problematic.
9.2	Practical lessons	Training cases, RBL, TBL, Case-study, question and answer. Assessment interview using a checklist
9.3	SRO/SROP	Report, presentation, test preparation. Evaluation criteria for independent work of students
9.4	Routine monitoring	Testing/MSQ
10.	**Evaluation criteria**	
10.1	**Criteria for assessing the learning outcomes of the discipline**	

NO. RO	**Learning Outcomes**	**Unsatisfactory**	**Satisfactory**	**All right.**	**That's great.**
CLO 1					
CLO 1	Demonstrates knowledge of science and its classifications, knows the methodological foundations of scientific knowledge. Understands the main types of conducting research work. Knows the features of theoretical and experimental research. Possesses knowledge	1.Does not possess knowledge of the concept of science, does not know the methodological foundations of scientific knowledge. 2. Does not know the basic types of conducting research work. 3. does not know the main features of theoretical and experimental research. 4. Does not have knowledge of scientific research method and methodology.	1.Possesses knowledge of the concept of science, knows some methodological foundations of scientific knowledge. 2.Knows about the main types of conducting research work. 3.Knows the main features of theoretical and experimental research. 4.Has limited knowledge of scientific research method and methodology.	1. Competently and clearly possesses knowledge of the concept of science, knows the methodological foundations of scientific knowledge. 2.Competently and clearly distinguishes between the main types of research and development activities. 3.Distinguishes between the main features of theoretical and experimental research. 4.Demonstrates reasonably good	1.Demonstrates excellent knowledge of the concept of science, competently distinguishes the methodological foundations of scientific knowledge. 2Analyzes the topic and connects it to previous learning. 3.Consistently distinguishes the features of theoretical and experimental research without difficulty. 4.Demonstrates

	of the method and methodology of scientific research.			knowledge of scientific research method and methodology.	excellent knowledge of scientific research method and methodology.
CLO 2	Knows the methods of summarizing research results, requirements for preparation of scientific report, scientific article, report and presentation materials, knows the organization of science management in research institutions	1. Does not know methods for summarizing research findings. 2. Does not know the requirements for the preparation of a scientific report, scientific article, report and presentation materials. 3. does not understand the organization of science management in research institutions	1.Knows some methods of summarizing the results of the research, while not active, needs the help of the teacher. 2. Knows the basic requirements for the preparation of a scientific report, scientific article, report and presentation materials. 3.Understands the organization of science management in research institutions.	1.Performs all practical work independently, draws appropriate conclusions and takes an active part in discussing the results of work and submits completed reports. 2. Correctly and consistently identifies, without assistance, the basic requirements for preparing a scientific report, research article, report, and presentation materials. 3. Possesses knowledge in science management organizations in research institutions	1.Fluently oriented in the methods of summarizing the results of research, requirements for the preparation of a scientific report, scientific article, report and presentation materials, makes appropriate conclusions and takes an active part in the discussion of the results of work. 2. Independently and consistently, without assistance, determines all the requirements for the preparation of a scientific report,

					scientific article, report, based on the study material. 3. Possesses knowledge in science management organizations in research institutions draws appropriate conclusions while exhibiting original thinking.
CLO 3	Is able to search for new information when working with educational, general scientific and specialized literature, knows the main results of the latest research published in leading professional journals	1.Not able to search for new information when working with educational, general scientific and specialized literature. 2.Is not oriented in searching for new information when working with educational, general scientific and specialized literature. 3.Cannot utilize the latest research published in leading professional journals	1.Able to search for new information when working with educational, general scientific and specialized literature. 2.Finds it difficult to find new information when working with educational, general scientific and specialized literature. 3.Poorly oriented in utilizing the latest research findings published in leading professional journals	1.Applies knowledge of theoretical material in interpreting basic scientific research. Makes correct conclusions on the interpretation of the data of indicators proposed in situational tasks. 2. Competently, clearly oriented in the search for new information when working with educational, general scientific and specialized literature. 3.Effectively utilizes the latest research findings	1.Demonstrates excellent knowledge in the search for new information when working with academic, general scientific and specialized literature, knows the main results of the latest research, Demonstrates original thinking in the analysis of a situational problem, based on a deep understanding of the theoretical

				published in leading professional journals	material. 2. Shows excellent knowledge of the required instructional material in describing the search for new information when working with academic, general scientific and specialized literature. 3. effectively utilizes the latest research published in leading professional journals, while exhibiting critical thinking.
CLO 3	Demonstrates: own knowledge and skills in conducting scientific research; ability to conduct a literature search and analyze scientific articles in the independent study of the	1. Does not possess the skills of independent scientific research. 2. Not oriented in finding the necessary literary material, unable to analyze scientific articles. 3. does not demonstrate the ability to work in a team.	1.Makes inaccuracies in scientific research, does not fully fulfill it. 2. Conducts a search for necessary literary material, analyzes scientific articles, but presents thoughts without logic and arguments. 3. Able to work in a team, but lacks initiative.	1. When conducting scientific research, demonstrates good knowledge of theoretical material, shows research skills and aspirations for independent self-education. 2.Gathers the necessary literary material to study a specific range of problems, analyzes scholarly articles, and	1. Demonstrates: excellent skills of independent scientific research; analyzes the results of research, showing excellent knowledge of the necessary theoretical material; the ability to predict the state of the organism

	discipline; ability to work in a team			displays critical thinking. 3.Able to work actively in a team, clearly express his/her own thoughts and advise others, able to advise on a possible range of applications of scientific research.	on the basis of the obtained data and the desire for independent self-education. 2.Searches for relevant information in reference materials, scientific literature, and compares these data. Analyzes scientific articles with critical thinking and is able to clearly state his/her own beliefs. 3.Works creatively in a team, presents his/her own beliefs in a reasoned manner, communicates effectively, and is able to advise others on a possible range of applications of scientific research.
10.2	**Criteria for evaluating teaching methods and technology**				
	Assessment criteria for evaluating the Practical lesson session				

Evaluation criteria	Level			
	That's great.	All right.	Udov.	Unhappy.
	90 - 100	70-89	50-69	<50
Oral questioning	**35-40**	**25-34**	**20-24**	**< 20**

Knowledge of basic terms and definitions on the topic under consideration	10-10	7-9	7	<6
Knowledge of the methods, principles and function of scientific knowledge	10-10	7-10	7	<6
Knowledge of the main stages of scientific research, problem solving and factors affecting scientific research knowledge	10-10	7-10	4-6	<6
References to additional literature sources when answering, additional outline, analysis of medical publications	5-10	4-5	2-4	0-2
Solving problems or completing assignments	**27-30**	**23-26**	**20-22**	**< 20**
Ability to analyze data	9-10	8-9	7-8	<7
Ability to work with regulatory documents	9-10	8-9	6-7	<6
Ability to draw conclusions	9-10	7-8	7-7	<7
Testing	**28 - 30**	**22-27**	**10 - 21**	**< 10**

Evaluation criteria for independent work of students

Form controls	Assessment	Evaluation criteria
Presentation of the topic	**That's great.** Relevant assessments: A (95-100%); A- (90-94%)	The presentation is made independently, within the assigned time, with the volume of at least 20 slides. At least 5 literary sources were used. The slides are informative and concise. At the defense the author demonstrates deep knowledge of the topic. Does not make mistakes when answering questions during the discussion.
	All right. Relevant assessments: B+ (85-89%); B (80-84%); B- (75-79%). C+ (70-74%);	The presentation is made independently, within the assigned time limit, with the volume of at least 20 slides. At least 4 literary sources were used. The slides are informative and concise. At the defense the author demonstrates good knowledge of the topic. Makes non-principled mistakes in answering questions, which he corrects himself.
	Satisfy effectively Meets the grades: C (65-69%); C- (60-64%); D+ (50-54%)	The presentation is made independently, within the assigned time limit, with the volume of at least 20 slides. At least 3 literary sources are used. The slides are not informative. At the defense the author makes fundamental errors in answering questions.
	Unsatisfactory-voluntarily Consistent with the assessment: FH (25-49%);	The presentation is not delivered on the due date, the volume is less than 20 slides. Less than 2 literature sources are used. The slides are not informative. At the defense, the author makes gross errors when answering questions. Not oriented in his own material.

	F (0-24%).	
Preparation and defense of the report	**That's great.** Meets the grades: A (95-100%); A- (90-94%)	The report is neatly done and submitted by the due date, written independently on at least 15 pages of typewritten text, using at least 5 literary sources. Schemes, tables and figures corresponding to the topic of the abstract are given. When defending the report, the text is not read, but narrated. Confidently and unmistakably answers all the questions asked.
	All right. Meets the grades: B+ (85-89%); B (80-84%); B- (75-79%); C+ (70-74%);	The report is neatly done and submitted by the due date, written independently on at least 10 pages of typewritten text, using at least 4 literary sources. Schemes, tables and figures corresponding to the topic of the abstract are given. When defending the report, the text is not read, but narrated. Makes non-principled mistakes when answering questions.
	Satisfactory Meets the grades: C (65-69%); C- (60-64%); D+ (50-54%); D- (50-54%).	The report is neatly done and submitted by the due date, written independently on at least 8 pages of typewritten text, using at least 3 literature sources. When defending the report, the text is read. Does not confidently answer questions, makes fundamental errors.
	Unsatisfactory-voluntarily Consistent with the assessment: FH (25-49%); F (0-24%).	The presentation is not delivered on the due date, the volume is less than 20 slides. Less than 2 literature sources are used. The slides are not informative. At the defense, the author makes gross errors when answering questions. Not oriented in his own material.
Composition of test questions	**That's great.** Meets the grades: A (95-100%); A- (90-94%).	Test assignments contain at least 20 questions. Handed in by the due date. The basis of the test is meaningful. Test tasks are formulated clearly, correctly, specifically. The answer options are uniform and adequate. There is an algorithm of answers. Correct answers are correctly marked.
	All right. Meets the grades: B+ (85-89%); B (80-84%); B- (75-79%); C+ (70-74%).	Test assignments contain at least 18 questions. Handed in by the due date. The basis of the test is substantial. Test tasks are formulated clearly, correctly, specifically. There are no variants of answers. There is an algorithm of answers. Correct answers are correctly marked.
	Satisfactory Meets the grades: C (65-69%); C- (60-64%); D+ (50-54%).	Test assignments contain at least 15 questions. Handed in by the due date. The basis of the test is incomplete. There are test tasks formulated vaguely, incorrectly, unspecifically. There are non-uniform answer options. There is an algorithm of answers. Not all correct answers are marked correctly.

	Unsatisfactory Consistent with the assessment FX (25-49%); F (0-24%).	Test tasks contain at least 10 questions. Non-content basis of the text, unclear question formulation. Inconsistent answer options. No algorithm of answers is available. More than 50% of correct answers are incorrectly marked.
Routine control/. Oral, solution of situational tasks	**That's great.** Meets the grades: A (95-100%); A- (90-94%).	90-100% of correct answers to the ticket. Situational tasks are solved by the student correctly, logically argued answers.
	All right. Meets the grades: B+ (85-89%); B (80-84%); B- (75-79%); C+ (70-74%).	70-89% of correct answers to the ticket. Situational tasks are solved by the learner correctly, arguments are weak.
	Satisfactory Meets the grades: C (65-69%); C- (60-64%); D+ (50-54%).	50-69% of correct answers to the ticket. Situational tasks are solved by the student with errors, reasoning is absent.
	Unsatisfactory Consistent with the assessment FX (25-49%); F (0-24%).	Less than 50% of correct answers to the ticket. Situational tasks are not solved correctly by the student.

Intermediate certification

Multi-point system of knowledge assessment

Letter grade	Digital equivalent of points	Percentage content	Evaluation under the traditional system
A	4,0	95-100	That's great.
A -	3,67	90-94	
B +	3,33	85-89	All right.
B	3,0	80-84	
B -	2,67	75-79	
C +	2,33	70-74	
C	2,0	65-69	Satisfactory
C -	1,67	60-64	
D+	1,33	55-59	
D-	1,0	50-54	
FX	0,5	25-49	Not satisfactory
F	0	0-24	

11.	Learning Resources
Electronic resources	
E-textbooks	1. Fylymy zertteuler negizderi Kadyrov A.S., Kadyrova I.A., Zhunusbekova J.Zh. , 2017 https://aknurpress.kz/login 2. Fundamentals of scientific research Kadyrov A.S., Kadyrova I.A. , 2018 https://aknurpress.kz/login 3. Kalieva, A.B. Methods of scientific research : A textbook. / S. Toraigyrov Pavlodar State University. - Pavlodar: Kereku, 2019. - 90 c. /http://rmebrk.kz/ 4.Zholdybaeva, G.S. Methodology and methods of scientific research : Electronic textbook. . - Karaganda: Karaganda State Technical University, 2016. http://rmebrk.kz/ 5. Kadyrov, A.S. et al.Methodology and methods of scientific research : Electronic textbook. / A.S. Kadyrov, B.K. Kurmasheva, A.B. Kukesheva. - Karaganda: Karaganda State Technical University, 2019. http://rmebrk.kz/ 6. Innovative methods of training in therapy. Omarova V.A., Omarova L.A. , 2016 / https://aknurpress.kz/login 7. Baimagambetov S.Z., Alzhanova R.S. Development of the health care system of Kazakhstan at the turn of the century (historical analysis). - Study guide. - Almaty: Evero, 2020. https://www.elib.kz/ru/search/read_book/68/
Journals (electronic journals)	-
Literature	**Basic literature** 1. Spandiyarov E Fylymiy zertteuler men innovatsiyu negizderi .Oku kuraly ESPI, 2021 2. Spandiyarov, E. Fundamentals of scientific research and innovation [Text] : practical manual / E. Spandiyarov ; Ministry of Education and Science of the Republic of Kazakhstan. - Almaty : Evero, 2018. - 136 c. 3. A.S. Kadyrov, I.A. Kadyrova, J.J. Junusbekova Fylymiy zertteuler negizderi: oku kuraly. "AKNUR" 2017 (EB) 4. Tatieva, M. M. Features and problems of using intellectual property and intangible assets in the conditions of innovation-oriented economy : textbook / M. M. Tatieva. - Almaty : ESPI, 2021. - 84 б 5. Spandiyarov E Fylymiy zertteuler men innovatsiyu negizderi Oku kuraly ESPI, 2021 **Further reading** 1. Koikov, V. V. Good research practice: Selected issues of biomedical research methodology and research in medical education [Text] : a study / V. V. Koikov, G. A. Derbisalina. - Karaganda : АҚНҰР, 2017. - 140 с 2. Tatieva M.M. Methodical Recommendations on Intellectual Property Valuation Training Manual ESPI, 2021

12.	Discipline Policy

Student requirements, attendance, behavior, grading policies, penalties, incentives, etc.

1. Active participation in the learning process.
2. In case of inactivity and failure to complete the task, penalties will be applied and the practical lesson grade will be reduced.
3. Have an idea of the topic of the upcoming lecture, be prepared for feedback in the lecture.

4. Be able to work as part of a team.
5. Active participation of students in research work and in the activities of the department to improve the teaching and learning process.
6. Observe safety procedures in the classroom.
7. Passing the boundary control at the prescribed time.
8. Routine control of students' knowledge is carried out at least twice during one academic period on the 6/11 day of theoretical training with the resolution of the results of end-of-term control in the academic logbook and electronic logbook, taking into account penalty points. The student who did not appear at the final control without a valid reason is not allowed to take an exam in the discipline. The results of the final control are submitted to the dean's office in the form of a report before the end of the control day.
9. Handing in the SIW at the set time according to the schedule, all written work is checked for plagiarism.
10. From the proposed SRT assignments, the student chooses one of the forms.
11. The rating of admission to the exam is made up of the average score of practical classes, SIW, boundary control.

Example of calculation of admission rating: ODS (admission rating) = 80 +90 + 95 = 87 (80 - average grade for practical classes; 90 - average grade of boundary control; 95 - average grade of SIW).

12. The student who did not get a passing score (50%) on one of the types of control (current control, boundary control №1 and/or №2) is not allowed to the examination in the discipline.

13.	**Academic policies based on the moral and ethical values of the academy**
	Academic Policies. P. 4 Student Honor Code. https://base.ukqfa.kz/?page_id=251
	Discipline Grading Policy.

14. Approval and revision

Date of approval by the department	Minutes No. 14 05.06.2023	Head of Department Sarsenbaeva G.Zh.	Caption
Date of approval by the PMC	Minutes No. 11 05.06.2023	Chairperson of the PMC Sadykova A.Sh.	Caption

Department of Social Medical Insurance and Public Health	044-58/16
Working curriculum of the discipline Syllabus	18page out of 20

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