KAZAKH NATIONAL UNIVERSITY NAMED AFTER AL-FARABI

HIGHER SCHOOL OF ECONOMICS AND BUSINESS

DEPARTMENT "MANAGEMENT"

APPROVE
Dean of the Higher School
economy and business
Bimendiyeva L.A.
"29" august 2024, protocol No. 1

EDUCATIONAL AND METHODOLOGICAL COMPLEX OF THE DISCIPLINE

ID 90630 "Organization and planning of scientific research"
on the educational program «Logistics», «State and Local government», " Finance " «Accounting», Management, Marketing, Economic, Project Management

Course - 1
Semester - 1
Number of credits - 5

Almaty – 2024

The teaching materials for the discipline **Organization and planning of scientific research** " were compiled by Doctor of Economics, Professor Adambekova A.A.

Based on the curriculum for the educational program all programs of HSEB

Reviewed and recommended at a meeting of the Department of Management

dated "29" august 2024, protocol No. 1

Head department "Management"
Doctor PhD, Professor _____ G.S.Smagulova

SYLLABUS

Fall semester 2024-2025 academic year

on the educational program «Logistics», «State and Local government», " Finance " «Accounting», Management, Marketing, Economic. Project Management

1 course

ID and name of course	Independent work of the master's student (IWMS)	Number of credits			General number of credits	Independent work of the master's student under the guidance of a teacher (IWMST)
		Lectures (L)	Practical classes (PC)	Lab. classes (LC)		
ID 90630 "Organization and planning of scientific research"	2	1.7	3.3	-	5	7

ACADEMIC INFORMATION ABOUT THE COURSE

Learning Format	Cycle, component	Lecture types	Types of practical classes	Form and platform final control
Offline	P/UC	problematic, informational, binary, lecture-conference	Writing scientific papers, conducting research, solving problems, situational tasks	Written Exam in Univer
Lecturer - (s)	Adambekova Ainagul Amangeldinovna. D.e.s. professor			
e-mail :	ainagul.adambekova@kaznu.edu.kz			
Phone :	87077710724			

ACADEMIC COURSE PRESENTATION

Purpose of the course	Expected Learning Outcomes (LO) As a result of studying the discipline the student will be able to	Indicators of LO achievement (ID)
to form the ability of doctoral students to deepen a systemic understanding of the characteristics of scientific research, practical skills about research methods, skills in research and writing scientific papers	LO 1 Apply knowledge on conducting scientific research, systems for collecting and analyzing scientific information, processing, preparing scientific research and works;	1.1 Uses a system of knowledge about the concepts of training and Ideas' about scientific research; 1.2 Explain and apply the techniques and methods of scientific research 1.3 Performs grouping scientific knowledge, information and research results for the formation of scientific problems and works; 1.4 Applies the methods of scientific research and reflects them in scientific works;
	LO2 Solve scientific problems using the example of specific situations with the aim of their subsequent reflection in scientific research works	2.1 Discloses the procedure for conducting scientific research and obtaining scientific results 2.2 Determines the methods of conducting scientific research and obtaining scientific results, 2.3 Discloses information in the direction of the research topic
	LO 3 Apply research methods, identify methods, evaluate information and scientific results reflected in research papers	3.1 Explain the research methodology 3.2 Determines the objects of scientific research 3.3 Applies quantitative and qualitative research methods 3.4 Determines the research problem and how to justify it 3.5 Forms a report on the research
	LO 4 Collect and interpret information sources to classify and define research issues	4.1 Explain the research methodology 4.2 Identifies and classifies sources of information

		4.3 Calculates and reflects the analysis of research results. 4.4 Calculates and justifies research results; 4.5 Calculates formulas and models on the topic of scientific research
	LO 5 Compile and present an analysis of the results of research activities	5.1 Explain and apply the research technique and methodology 5.2 Explains the content and purpose of the formation of a research topic; 5.3 Reflect changes in the results of research work; 5.4 Calculate formulas and models in the research area 5.5 Reflects the results of the research 5.6 Corrects the results of scientific research.
Prerequisites		
Post requisites	Major Courses	
Learning Resources	**Literature:**** Main: 1. Ponomarev A, Pikuleva E. Methodology of scientific research. - Ed. 2nd, - Moscow: 2017.-185 p. 2. Korotkina A. Academic writing: process, product and practice Textbook for universities. 2018 - 50 p. 3. Kapterev A. Presentation Mastery: How to Create Presentations That Can Change the World - 2017 4 DEVELOPMENT PROGRAM OF NON-PROFIT JOINT STOCK COMPANY "KAZAKH NATIONAL UNIVERSITY NAMED AFTER AL-FARABI" FOR 2022 – 2026 5 Research Methods training Manual Compiled and Edited by Ran Greenstein Written by: Benjamin Roberts (HSRC) Ari Sitas (University of Natal) Ran Greenstein (University of the Witwatersrand), 2018 Additional: 6 Ability to Use Flexible Project Management in the Hotel Business Turginbayeva, A., Nurseitova, G., Zhakupbekova, G., Doszhanov, K., Konysbay, A. E3S Web of Conferences, 2020, 159, 04009 7 *Modern Economic and Logistical Trends in Eurasia: How Do New Trans-Eurasian Mega-Projects Influent to National Economic Growth Audonin, A., Turginbayeva, A., Askerov, A., Yergobek, D. E3S Web of Conferences, 2020, 159, 06009* **Research infrastructure** 1 MS Excel **Professional scientific databases** 1https://www.scopus.com/ 2 https://www.elsevier.com/ 3 https://access.clarivate.com/ **Internet resources** 1. http://elibrary.kaznu.kz/ru 2 https://ru.coursera.org/ 3 https://be.kaznu.kz/ 4 https://vestnik.turan-edu.kz/	
Academic course policy	The academic policy of the course is determined by the Academic Policy and the Policy of Academic Integrity of Al-Farabi Kazakh National University . Documents are available on the main page of IS Univer . **Integration of science and education.** The research work of students, undergraduates and doctoral students is a deepening of the educational process. It is organized directly at the departments, laboratories, scientific and design departments of the university, in student scientific and technical associations. Independent work of students at all levels of education is aimed at developing research skills and competencies based on obtaining new knowledge using modern research and information technologies. A research university teacher integrates the results of scientific activities into the topics of lectures and seminars (practical) classes, laboratory classes and into the tasks of the IWST, IWS, which are reflected in the syllabus and are responsible for the relevance of the topics of training sessions and assignments. **Attendance.** The deadline for each task is indicated in the calendar (schedule) for the implementation of the content of the course. Failure to meet deadlines results in loss of points.	

Academic honesty. Practical/laboratory classes, IWS develop the student's independence, critical thinking, and creativity. Plagiarism, forgery, the use of cheat sheets, cheating at all stages of completing tasks are unacceptable.

Compliance with academic honesty during the period of theoretical training and at exams, in addition to the main policies, is regulated by the "Rules for the final control" , "Instructions for the final control of the autumn / spring semester of the current academic year" , "Regulations on checking students' text documents for borrowings".

Documents are available on the main page of IS Univer .

Basic principles of inclusive education. The educational environment of the university is conceived as a safe place where there is always support and equal attitude from the teacher to all students and students to each other, regardless of gender, race / ethnicity, religious beliefs, socio-economic status, physical health of the student, etc. All people need the support and friendship of peers and fellow students. For all students, progress is more about what they can do than what they can't. Diversity enhances all aspects of life.

All students, especially those with disabilities, can receive counseling assistance by phone / e- mail ainagul.adambekova@kaznu.edu.kzor via video link in MS Teams https://teams.microsoft.com/l/channel/19%3a-Amrr2N8exlkOGY6iHpF51p18_MFziRU-cFMJA9p-Ok1%40thread.tacv2/%25D0%259E%25D0%25B1%25D1%2589%25D0%25B8%25D0%25B9?groupId=5a7ec4c8-d3e7-469d-8fe3-620cd2111024&tenantId=b0ab71a5-75b1-4d65-81f7-f479b4978d7b

Integration MOOC (massive open online course). In the case of integrating MOOC into the course, all students need to register for MOOC. The deadlines for passing MOOC modules must be strictly observed in accordance with the course study schedule.

ATTENTION! The deadline for each task is indicated in the calendar (schedule) for the implementation of the content of the course, as well as in the MOOC. Failure to meet deadlines results in loss of points.

INFORMATION ABOUT TEACHING, LEARNING AND ASSESSMENT

Score-rating letter system of assessment of accounting for educational achievements

Grade	Digital equivalent points	points, % content	Assessment according to the traditional system
A	4.0	95-100	Great
A-	3.67	90-94	
B+	3.33	85-89	Fine
B	3.0	80-84	
B-	2.67	75-79	
C+	2.33	70-74	
C	2.0	65-69	Satisfactorily
C-	1.67	60-64	
D+	1.33	55-59	
D	1.0	50-54	
FX	0,5	25-49	Unsatisfactory
F	0	0-24	

Assessment Methods

Criteria-based assessment is the process of correlating actual learning outcomes with expected learning outcomes based on clearly defined criteria. Based on formative and summative assessment.

Formative assessment is a type of assessment that is carried out in the course of daily learning activities. It is the current measure of progress. Provides an operational relationship between the student and the teacher. It allows you to determine the capabilities of the student, identify difficulties, help achieve the best results, timely correct the educational process for the teacher. The performance of tasks, the activity of work in the classroom during lectures, seminars, practical exercises (discussions, quizzes, debates, round tables, laboratory work, etc.) are evaluated. Acquired knowledge and competencies are assessed.

Summative assessment - type of assessment, which is carried out upon completion of the study of the section in accordance with the program of the course. Conducted 3-4 times per semester when performing IWS. This is the assessment of mastering the expected learning outcomes in relation to the descriptors. Allows you to determine and fix the level of mastering the course for a certain period. Learning outcomes are evaluated.

Formative and summative assessment	Points % content
Activity at lectures	9
Work in practical classes	27
Independent work	24
Final control (exam)	40
TOTAL	100

Calendar (schedule) for the implementation of the content of the course. Methods of teaching and learning.

week	Topic name	Number of hours	Max. score
	Module I Fundamentals of Research.		
1	**Lec 1.** Theme: Methodological foundations of scientific research.	1	2
	Sem 1. Theme Discussion and interactive lesson. Discussion of the role of the research on the topic of scientific interests of Master's students	2	6
2	**Lec 2.** Theme Search, collection and processing of the literature.	1	2
	Sem 2. Theme Analysis of scientific articles in the direction of research	2	6

	IWMS 1 Study at least 5 publications on the topic of your research. Review the subject matter - relevance, strengths, weaknesses of each publication, applicability in your research. The conclusions should also include the possibility of recognizing the belonging to a particular scientific school of a particular publication. 1000-1200 words		
	IWMST 1. Consultation on the implementation of the IWMS 1		
3	**Lec 3.** Theme The goal and tasks of scientific research. Construction of hypotheses.	**1**	**2**
	Sem 3. Theme Analysis of scientific sources and information on the direction of research. Critical discussion of purposes of the tasks, and hypotheses: self-assessment and external assessment	2	7
	IWMST **2.** Consultation on the implementation of the IWMS 1		
4	**Lec4.** Theme Formation of the steps of the research	**1**	**2**
	Sem 4. Theme Case Study: development of the steps of the research	2	6
5	**Lec 5.** Theme Research methods and scientific approaches of their application.	**1**	**2**
	Sem 5. Theme Case Study: identification of the research methods	2	7
	IWMST **3.** Consultation on the implementation of the IWMS 1		
	Module 2 - Quantitative methods in scientific research.		
6	**Lec 6** Theme Quantitative methods in scientific research. Part 1	**1**	**2**
	Sem 6. Theme Selection of quantitative research methods in the research field of the Master's student	2	7
7	**Lec 7.** Theme Quantitative methods in scientific research. Part 2	**1**	**2**
	Sem 7. Theme Application of quantitative research methods in the research field of the Master's student	2	7
	IWMST 4. Study at least 5 publications on the topic of your research. Review the subject matter - relevance, strengths, weaknesses of each publication, applicability in your research. The conclusions should also include the possibility of recognizing the belonging to a particular scientific school of a particular publication. 1000-1200 words (IWMS1)		40
	LEVEL CONTROL 1		100
8	**Lec 8.** Theme Mathematical statistical methods of data analysis. Part 1	**1**	**2**
	Sem 8. Theme Selection of mathematical statistical research methods in the research fields of the Master's student	2	6
9	**Lec 9.** Theme Mathematical statistical methods of data analysis. Part 2	**1**	**2**
	Sem 9. Theme Application of mathematical statistical research methods in the research fields of the Master's student	2	6
	IWMS 2 Preparation a science work 1) For the EP State and local government, Logistics, Marketing - Choose qualitative methods of analysis, give a rationale for their applicability / inapplicability to solve the tasks and achieve the goal of your study. 700-1000 words 2) For the EP Finance, Accounting - Choose quantitative methods of analysis, give a rationale for their applicability / inapplicability to solve the tasks and achieve the goal of your study. 700-1000 words		
	IWMST **5.** Consultation on the implementation of the IWMS 2		
10	**Lec 10.** Theme Quantitative expert methods. Application of artificial intelligence in scientific research	**1**	**2**
	Sem 10. Theme Application of quantitative expert methods in the research field of the Master's students. Application of artificial intelligence in scientific research	2	5
	Module 3 - Qualitative research methods and research results		
11	**Lec 11.** Theme Qualitative research methods Part 1	**1**	**2**
	Sem 11. Theme Selection of qualitative research methods in the research field of the Master's student	2	6
	IWMST **6.** Consultation on the implementation of the IWMS 2		
12	**Lec 12.** Theme Qualitative research methods Part 2	**1**	**2**
	Sem 12. Theme Application of qualitative research methods in the research field of the Master's student	2	5
13	**Lec 13.** Theme Qualitative expert research method	**1**	**2**
	Sem 13. Theme Application of qualitative expert research methods in the research field of the Master's student	2	5
	IWMST **7.** Consultation on the implementation of the IWMS 2		
14	**Lec 14.** Theme Construction of the research results	**1**	**2**
	Sem 14. Theme Construction of the research results. Correction of mistakes	2	5
15	**Lec 15.** Theme Presentation of the research results	**1**	**2**
	Sem 15. Theme External assessment of the scientific works. Review construction	2	5

	IWMST 7. Preparation a science work 1) For the EP State and local government, Logistics Marketing - Choose qualitative methods of analysis, give a rationale for their applicability / inapplicability to solve the tasks and achieve the goal of your study. 700-1000 words 2) For the EP Finance, Accounting - Choose quantitative methods of analysis, give a rationale for their applicability / inapplicability to solve the tasks and achieve the goal of your study. 700-1000 words (IWMS2)		40
	Midterm control 2		100
	Final control (exam)		100
	TOTAL for course		100

RUBRICTOR FOR CRITERIAL ASSESSMENT OF FINAL CONTROL

Discipline: "Organization and planning of scientific research."

Criteria/score	Descriptors				
	Excellent	Good	Satisfactory	Unsatisfactory	
	90–100	70–89	50–69	25–49	0–24
Knowledge and understanding of course theory and concepts	An "excellent" grade is given for an answer that contains a comprehensive disclosure of all three questions (within the limits of acquired knowledge), a detailed argumentation for each conclusion and statement, is constructed logically and consistently, and is supported by examples from the developed classroom topics.	A "good" rating is given for an answer that contains a complete but not exhaustive coverage of all issues, an abbreviated argumentation of the main points, and allows for a violation of the logic and sequence of presentation of the material. The answer contains stylistic errors and inaccurate use of terms.	A "satisfactory" rating is given for an answer that contains incomplete coverage of the questions proposed in the ticket, superficially argues the main points, allows compositional imbalances in the presentation, violations of the logic and sequence of presentation of the material, and does not illustrate theoretical points with examples from the developed class notes.	Incorrect coverage of the questions posed, erroneous argumentation, factual and verbal errors, assumption of an incorrect conclusion. Ignorance of basic concepts, theories...;	Violation of the Rules for final control.
Application of the selected methodology and technology to specific practical tasks	Complete completion of the educational assignment, a detailed, reasoned answer to the question posed, followed by solving practical problems of the course;	Partial completion of the educational assignment, incomplete, sometimes reasoned answer to the question posed with an incomplete solution to the practical problems of the course; illiterate use of scientific language norms in the course;	The material is presented in fragments, in violation of logical sequence, factual and semantic inaccuracies are made, and theoretical knowledge of the course is used superficially.	An irrational method of solving a task or an insufficiently thought-out answer plan; inability to solve problems, perform tasks in general; making mistakes and omissions that exceeds the norm.	Inability to apply knowledge and algorithms to solve tasks; inability to draw conclusions and generalizations. Violation of the Rules for final control.
Evaluating and analyzing the applicability of the chosen methodology to the proposed practical task, justifying the result obtained	Consistent, logical and correct justification of scientific principles and the applied methodology and technology, literacy, compliance with the norms of scientific language, 1-2 inaccuracies in the presentation of the material are allowed that do not affect the generally correct conclusions (+ visualization of the results of the	3-4 inaccuracies in the use of conceptual material, minor errors in generalizations and conclusions are allowed, which do not affect the good overall level of task completion.	Conclusions on the applicability of substantiated scientific provisions are vague and unconvincing; there are stylistic and grammatical errors, as well as inaccuracies in processing the results of a practical solution	The task was completed with gross errors, the answers to the questions were incomplete, the conceptual material and argumentation were poorly used.	The task has not been completed, there are no answers to the questions posed, materials and analysis tools have not been used. Violation of the Rules for Conducting Final Control

	justification through graphical data).				

Dean of the Higher School of Economics — Bimendieva L.A.

Chair of the Academic Committee on the Quality of Teaching and Learning — Nizamdinova A.K.

Head of the Department "Management" — Smagulova G.S.

Lecturer — Adambekova A.A.