SYLLABUS

Spring semester 2024-2025 ac.y

Educational Program 8D10101 Public Health "Research Methods"

ID	Independent work of the student		Number of credits			General number	Independent work of the student	
and			Lectures Practical Lab.					
name, of	(SIW)		(L)	classes	classes	of credits	under the guidance	
course				(PC)	(LC)		of a teacher (SIWT)	
AE	The number of	f SSW is 4					The number of	
	L	CADEMIC	INEODMA	TION ABOU	TT THE CO	LIDCE	SIWT is 6.	
Learning		Lecture	INFURIVIA	Types	I THE CO		latform final control	
Format	Cycle, component	types		of practical	classes	Form and p	iatioriii iinai controi	
Offline	component		10	or principul		The oral exam in Univer		
Lecturer - (s)	Farida Iskakova							
e-mail:	iskakovaf@gmail.com							
Phone:	+1-412-996-42	45						
Assistant - (s)								
e-mail:								
Phone:								
_				URSE PRESE	ENTATION	T	07.0 14 (77)	
Purpose of the course is to	E	xpected Lea	rning Outco	omes (LO)		Indicators	of LO achievement (ID)	
form deep	1. To demonstr		ge of the pro	cess of genera	ting	1.1 Describe the major steps in the		
knowledge,	scientific theory.				alization of the stage of			
skills, and				health services research. 1.2 Demonstrate how to select and				
competencies in				ate a research problem.				
Epidemiology	2. To possess knowledge and skills in selecting research to 2.1 Des				e the major characteristics			
and				ich to	and process of health research.			
epidemiologic	address popul	address population health issues.				2.2 Find and interpret health		
studies and use						indicator da	1	
them to solve	3. To determin	ne the appror	oriate epidem	iologic design	s and types	3.1 Distinguis	h between observational	
Public Health		3. To determine the appropriate epidemiologic designs and types for addressing public health issues.		J F	and experimental study designs.			
Issues.		•				3.2. Define an	d describe the types of	
							d confounding in research.	
							he ethical principles and	
	4 Da alala 4a m	1 4		1			ucting research	
	4. Be able to plan and write a research proposal.			4.1 Write a research proposal, including the problem statement,				
						background, hypotheses, and methods		
							ng the proposed research.	
							questionnaire to research	
	5. Be able to conduct research using the knowledge and skills				5.1 Search for publications and			
	acquired in this course.				write a literature review on the			
						problem.		
							research (creation of a	
					questionnaire, collection). 5.4. Create a database and perform			
							ocessing of the results.	
				processing of the results.				
	•					•		

Prerequisites
Postrequisites

Learning Resources

Literature: main, additional.

Gordis, Leon, Epidemiology, 5th Edition, W.B. Saunders Company, 2013.

- 2. High-Yield Biostatistics, Epidemiology, & Public Health, 4th Edition, Kaplan USMLE, Lecture Notes, Behavioral Sciences and Social Science, 2017.-229p.
- 3. Fundamentals of Biostatistics. Seventh Edition. Rosner. 2016.-856 p.
- 4. HEALTH RESEARCH METHODOLOGY. A Guide for Training in

Research Methods. Second Edition. WORLD HEALTH

ORGANIZATION.Manila, 2010.

Regional Office for the Western Pacific

- 5. Medical Statistics at a Glance Workbook. Front Cover. Aviva Petrie, Caroline Sabin. John Wiley & Sons, 2013 Medical 120 p.
- 6. Evidence-Based Medicine. How to Practice and Teach EBM (3rd Edition). S.E. Straus, W.S. Richardson, Paul Glasziou, R. Brian Haynes.
- 7. Literature Reviews in Social Work. Robin Kiteley and Christine Stogdon 2014.-20 p. Additional literature.
 - 8. Evidence-Based Answers to Clinical Questions for Busy Clinicians Workbook 2009, 26p.
- 9. Appraisal of Guidelines for Research & Evaluation II. The AGREE Next Steps Consortium May 2009.-52 p.
- 10. Research Infrastructure

Computer class.

Professional, scientific databases

- 1. Microsoft Excell Manual// chrome-extension://adminfinance.umw.edu/tess/files/2013/06/Excel-Manual1.pdf
- 2. SPSS Survival Manual 6th edition. Julie Pallant 2016

Internet resources

Kaznu Library

- 2. MOOC / video lectures, etc. 3.www.who.org 4.www.cdc.gov
- 5. https://pubmed.ncbi.nlm.nih.gov/

Software (optionally)

IBM SPSS – 26 version

Excel program

Academic course policy

The academic policy of the course is determined by Documents 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 university's departments, laboratories, scientific and design departments, 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 the tasks of the SSWT and SSW, 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, SSW, develop the student's independence, critical thinking, and creativity. Plagiarism, forgery, cheat sheets, and 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 "Regulations on checking students' text documents for borrowings".

Documents are available on the main page of IS Univer.

Basic principles of inclusive education. The university's educational environment 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 at +7701101308/or e- mail *iskakova.farida@kaznu.kz* or whats up via video link in MS Teams *enter a* permanent link to the meeting.

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.

NAMES AND A STATE OF THE PROPERTY OF THE PROPE					
INFORMATION ABOUT TEACHING, LEARNING AND ASSESSMENT					
Score-rating letter system of assessment of accounting for educational	Assessment Methods				
achievements					

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.

Assessment according to

the traditional system

Digital equivalent points

Science

points, % content

Grade

	points			formative and summative assessment.			
A	4.0 _	95-100	Great	Formative assessment is a type of assessmen			
A-	3.67	90-94		daily learning activities. It is the current representational relationship between the student			
A-	3.07	90-94		determine the capabilities of the student, ide			
B+	3.33	85-89	Fine	best results, timely correct the education	al process	s for the tead	cher. The
				performance of tasks, the activity of work			
				seminars, practical exercises (discussions,			
				laboratory work, etc.) are evaluated. Acquired assessed.	i knowied	ige and compet	encies are
				Summative assessment - type of assessm	nent, whi	ch is carried	out upon
				completion of the study of the section in ac			
				course. Conducted 3-4 times per semester v			
				assessment of mastering the expected learn			
				descriptors. Allows you to determine and fix the a certain period. Learning outcomes are evalu		mastering the c	ourse for
В	3.0	80-84		Formative and summative assessment		% content	
				1. Activity in discussions of topic in classes	1.		
				2. Work in practical classes	2		
				3.Independent work 4. Design and creative activity	3.		
				5. Final control (exam)	5.		
B-	2.67	75-79		Activity in discussions of topic in classes	10		
C+	2.33	70-74		Work in practical classes	10	-	
C-	2.0	65-69	Satisfactorily	Independent work	10 30		
D+	1.67	60-64 55-59	Unsatisfactory	Design and creative activity Final control (exam)	40		
D ₊	1.0	50-54	Ulisatisfactory	TOTAL	100		
D	1.0	30-34		IOTAL	100		
(Calendar (so	hedule) for the	e implementation of t	he content of the course. Methods of teach	ing and	l learning.	
A week			Ton	ic name		Number	Max.
11 WCCK			100	ic imiic		of hours	ball
	MODU	JLE 1 PUBLIC	C HEALTH RESEAR	RCH BASUCS			
	L.1 Conce	ptualization of H	lealth Services Research				
	S 1. Resea	rch Review and	Research Question Deve	lopment			7
	L.2 Resea	rch Strategies	and Design. Sampling	methods and sampling size			
	S 2. Rese	arch Strategies	and Design.Sampling	methods and sampling size			7
	SIWT 1.	Consultation or	the implementation o	of SIW, 1-5 topics.			
			ological studies	,			
	S 3. Desc	riptive epidemi	ological studies				7
			of One Descriptive Epide	emiological Study.			25
		tical epidemio					
		ytical epidemic					7
		·	s and Clinical Trials				<u> </u>
			s (Clinical Trials)				7
				ITATIVE RESEARCH STUDIES		1	
	L.6. Diag	nostic and Scre					
		nostic and Scre					7
			n the implementation o	of SIW 2			
		and confounding					
		and confoundir					8
			n Clinical Trials.				25
Midterr	n control 1						100
	L.8 Basic	risk measurem	ent				
	S 8. Basic	risk measurem	ent.				7
	SIWT 3. 0	Consultations o	n the implementation of	of SIW 3			
		itative Studies					
			Design, Data collection	and Analysis.			7
			of one Qualitative Rese				22
		ed Methods Re	search: Quantitative ar	nd Qualitative Results in Health			
	Science					1	1

S. 10. Mixed Methods Research: Quantitative and Qualitative Results in Health

	Science	
	SIWT 4. Consultation on the implementation of SIW 4	
	MODULE 3 CONSTRUCTION RESEARCH PROPOSAL	
	L.11 Construction of Research Proposal	
	S.11 Construction of Research Proposal	7
	SIWT 5. Consultation on the implementation of SIW 4	
	L.12 Survey Research	
	S. 12 Survey Research	7
	L.13 Statistical Analysis	
	S. 13. Statistical Analysis	7
	SIW4. Write Research Proposal on a Scientific Research	22
	L.14 Secondary Analysis	
	S. 14. Secondary Analysis	7
	L.15 Summarizing and Visualizing Data.	
	S. 15. Summarizing and Visualizing Data	7
	SIWT 6. Consultation on final exam	
Midt	term control 2 (tests)	100
Fina	Final control (exam)	
TOT	TAL for course	100

Dean	Kalmahanov S.B.
Chairman of the Academic Committee	
on the quality of teaching and learning	G.M.Kurmanova
Head of Department	G.Zh.Kapanova
Lecturer	Iskakova F.A.