## SYLLABUS Fall semester 2025-2026 academic year Educational program 6B10113 Dentistry "Patient and society"

ID	Independent work of the student		Number of credits			General Independent work		
and name			Lectures Practical Lab.		number	of the student		
of course	(SIW)		(L)	classes (PC)	classes (LC)	of credits	under the guidance of a teacher (SIWT)	
				(10)	(LC)			
	The number of	f SIW is 4					The number of SIWT is 6.	
					TE THE CO			
Learning	Cycle,	Lecture	INFORMA	TION ABOUT Types	TTHE CC		latform final control	
Format	component	types		of practical	classes	Form and platform final control		
Choose	romponent types				The written task in Univer			
Online								
Lecturer - (s)	Farida Iskakov							
e-mail :	iskakovaf@gn					-		
Phone : Assistant - (s)	+7-701-101-30	J86				1		
e-mail :						-		
Phone :						-		
Thome v	<u> </u>	ACAI	DEMIC CO	URSE PRESI	ENTATION	L		
Purpose	E	xpected Lea	arning Outc	omes (LO)*		Indicators	of LO achievement (ID)	
The course is to								
form knowledge	1 Demonstrat	e knowledge	of enidemic	logy hiostatis	etics and	1.1 Knows 1	base principles, types, and	
of the basics of	1. Demonstrate knowledge of epidemiology, biostatistics, and evidence-based medicine.			methods of epidemiology.				
epidemiology,						1.2 Knows statistical methods.		
evidence-based	2. Possess kno					2.1 Formulates a research question		
medicine, and biostatistics,	Medicine for o	critically eva	luating scien	tific and medi	cal	using the PICO, PICOT structure.		
, , , , , , , , , , , , , , , , , , ,	information.			2.2 Show the skills to search for				
skills, and abilities to plan	scientific publications in t							
and conduct	based PubMed/Medline, Cochr Library, Embase, etc.			,				
scientific research								
on public health				surrounding social science and medical				
on public hearth						research with human participants.		
		3. Determine appropriate research design and methods given specific research objectives.			ls given	3.1 Explain and choose different		
	specific resear				research designs.  3.2. Can work in the IBM SPSS			
						program  3.3 Can measures of Disease Occurrence using Descriptive and Inferential Statistics.		
	4. Be able to p	lan and writ	e a research	proposal.			research proposal,	
							e problem statement, hypotheses, and methods	
							ng the proposed research.	
	4.2 Creates a questionnaire. 4.3 Downloads and studies the SPSS program							
				nds and studies the IBM				
	5. Conducts research using the knowledge and skills acquired in this course.  5.1 Searches for publications and writes a literature review on the							
			ature review on the					
						problem. 5.3 Conducts	s research (creation of a	
	questionnaire, collection		*					
			5.4. Creates a database and performs					
			ocessing of the results.					
						_	p the results of the study	
	(thesis).							

Prerequisites						
Post requisites						
Learning	Literature: main, additional.					
Resources	<ol> <li>Gordis, Leon, Épidemiology, 5th Edition, W.B. Saunders Company, 2013.</li> <li>High-Yield Biostatistics, Epidemiology, &amp; Public Health, 4th Edition, Kaplan USMLE, Lecture Notes, Behavioral Sciences and Social Science, 2017229p.</li> <li>Fundamentals of Biostatistics. Seventh Edition. Rosner 2016856 p.</li> <li>Primer of Biostatistics. Seventh Edition. Stanton A. Glantz, Ph.D., 2009, 297p.</li> <li>Medical Statistics at a Glance Workbook. Front Cover. Aviva Petrie, Caroline Sabin. John Wiley &amp; Sons, 2013 - Medical - 120 p.</li> <li>Evidence-Based Medicine. How to Practice and Teach EBM (3rd Edition). S.E. Straus, W.S. Richardson, Paul Glasziou, R. Brian Haynes.</li> <li>Literature Reviews in Social Work. Robin Kiteley and Christine Stogdon - 201420 p. Additional literature</li> <li>Evidence-Based Answers to Clinical Questions for Busy Clinicians Workbook - 2009 26p.</li> <li>Appraisal of Guidelines for Research &amp; Evaluation II. The AGREE Next Steps Consortium May 2009</li> </ol>					
	Research infrastructure 1. Computer class. Professional scientific databases 1. Microsoft Excel Manual// chrome-extension://adminfinance.umw.edu/tess/files/2013/06/Excel-Manual1.pdf 2. SPSS Survival Manual, 6th edition. Julie Pallant – 2016 Internet resources 1. KazNU Library 2. MOOC / video lectures, etc. 3.www.who.org 4.www.cdc.gov 5. https://pubmed.ncbi.nlm.nih.gov/ Software (optionally) 1. IBM SPSS – 26 version 2. Excel program					

## Academic The academic policy of the course is determined by course policy 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 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.

permanent link to the meeting.

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

**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.

		ING, LEARNING AND ASSESSMENT Assessment Methods				
Score-rating letter system of assessment of accounting for educational achievements						
Grade	Digital equivalent points	points, % content	Assessment according to the traditional system	Criteria-based assessment is the process of co with expected learning outcomes based on c formative and summative assessments.		
A	4.0 _	95-100	Great	<b>Formative assessment is</b> a type of assessment daily learning activities. It is the current m		
A-	3.67	90-94		operational relationship between the student a determine the student's capabilities, identify of		
B+	3.33	85-89	Fine	results, and make timely corrections to the educational process for The performance of tasks and the activity of work in the classroo lectures, seminars, practical exercises (such as discussions, quiz roundtables, and laboratory work), is evaluated. Acquired kno competencies are assessed.  Summative assessment - a type of assessment that is carried completion of the study of the section in accordance with the procourse. Conducted 3-4 times per semester when performing assessment evaluates mastery of the expected learning outcomes in redescriptors. Allows you to determine and fix the level of mastery of the aspecific period. Learning outcomes are evaluated.		
В	3.0	80-84		Formative and summative assessment 1. Activity in discussions of the topic in classes 2. Work in practical classes 3. Independent work 4. Design and creative activity 5. Final control (exam)		6 content 10 10 10 30 40
B-	2.67	75-79		Activity in discussions of the topic in classes	10	
C+	2.33	70-74		Work in practical classes	10	
С	2.0	65-69	Satisfactorily	Independent work	10	
C-	1.67	60-64	7	Design and creative activity	30	
D+	1.33	55-59	Unsatisfactory	Final control (exam)	40	

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

TOTAL

50-54

A week	Topic name	Number	Max.
		of hours	ball
	MODULE 1 INTRODUCTION TO EPIDEMIOLOGY AND EVIDENCE-BASED MEDI	CINE	
	PC 1. Introduction to Epidemiology.	5	6
	PC 2. Epidemiological Study Design.	5	6
	SIWT 1. Control work, tests, individual/group projects, essays, situational tasks, testing,		
	portfolios, etc., at the teacher's discretion. An estimated 25-30 % of the total points for foreign		
	control. Consultations on the implementation of SIW 1		
	PC 3. Epidemiology of communicable and non-communicable diseases.	5	6
	<b>SIW 1</b> . Choose one health problem and describe it using epidemiological questions: What? Where? When? Why? and How?		25
	<b>PC 4.</b> 5 stages of Evidence-Based Medicine. Search and critical analysis of published research.	5	6
	<b>PC 5.</b> Systematic review and meta-analysis. Evaluation of clinical protocols and recommendations. GRADE.	5	6
	MODULE 2 INTRODUCTION TO BIOSTATISTICS		•
	<b>PC.6.</b> Research proposal. Create and share the questionnaire.	5	
	SIWT 2. Colloquium (situational task). Consultations on the implementation of		
	SIW 2. Create a research proposal		
	PC 7. Measurement in Epidemiology. Frequencies, rates, ratios.	5	7
	SIW 2. Organization of scientific research		25
	PC 8. Summarizing data: Properties and methods of Frequency Distributions. Measures of	5	7
	Central Location and Spread.		
	<b>SIWT 3</b> . Consultations on the implementation of SIW 3		
Midterm	control 1 (tests)		100
	<b>PC 8.</b> Summarizing data: Properties and methods of Frequency Distributions. Measures of Central Location and Spread.	5	7

SIWT 3. Consultations on the implementation of SIW 3		
<b>PC 9.</b> Types of statistical hypotheses. Hypothesis testing. P-value. Standard error and	5	77
confidence interval.		
SIW3. Creation of a database in Excel and SPSS.		25
PC 10. Biostatistics: Descriptive statistics. Databases (Excel, SPSS).	5	7
SIWT 4. Consultation on the implementation of SIW 4		
MODULE 3 CONSTRUCTION OF A RESEARCH PROPOSAL		
PC 11. Introduction to analytical statistics. Methods for the analysis of qualitative variables,	5	7
independent and related samples (Chi-square test. Fisher's exact test, McNemar's test).		
SIWT 5. Consultation on the implementation of SIW 4		
PC 12. Parametric Tests (T-tests, ANOVA).	5	7
With RO 3.		
PC 13. Non-parametric Tests (Mann-Whitney U-test, Wilcoxon U-test, Kruskal-Wallis Test,	5	7
Friedman Test.		
SIW4. Overview of research results		25
PC 14. Correlation (Pearson and Spearman) and regression. Survival analysis Log-rank test.	5	7
PC 15. Presentation of scientific projects.		8
SIWT 6. Consultation on final exam		
Midterm control 2 (test)		
Final control (exam)		
TOTAL for the course		

Dean	Kalmahanov S.B.
Head of Department	Ualliyeva A.E.
Lecturer	Iskakova F.A.