



WORKING CURRICULUM

Academic year

2025-2026 (Spring, Autumn)

Group of educational programs

D094 - "Information technologies"

Educational program

8D06103 - "Management of information systems"

The awarded academic degree

Doctor of Philosophy PhD

Form and duration of study

full time (scientific and pedagogical track) - 3 years

Discipline code	Name of disciplines	Block	Cycle	Total ECTS credits	Total hours	lek/lab/pr Contact hours	in hours SIS (including TSIS)	Form of control	Allocation of face-to-face training based on courses and semesters						Prerequisites	
									1 course		2 course		3 course			
									1 sem	2 sem	3 sem	4 sem	5 sem	6 sem		
CYCLE OF GENERAL EDUCATION DISCIPLINES (GED)																
CYCLE OF BASIC DISCIPLINES (BD)																
M-1.Module of basic training (university component)																
CSE339	Research methodology		BD, UC	5	150	30/0/15	105	E		5						
LNG305	Academic writing		BD, UC	5	150	0/0/45	105	E		5						
CSE333	Big Data Processing	1	BD, CCH	5	150	30/0/15	105	E		5						
SEC302	Intelligent data analysis in information systems	1	BD, CCH	5	150	30/0/15	105	E		5						
MNG349	Intellectual property and the global market	1	BD, CCH	5	150	30/0/15	105	E		5						
M-3. Practice-oriented module																
AAP350	Pedagogical practice		BD, UC	10				R	10							
CYCLE OF PROFILE DISCIPLINES (PD)																
M-2. Module of professional activity (component of choice)																
CSE319	Applied optimization methods	1	PD, CCH	5	150	30/0/15	105	E		5						
CSE320	Computer modeling of processes and systems	1	PD, CCH	5	150	30/0/15	105	E		5						
CSE338	Emotional artificial intelligence	2	PD, CCH	5	150	30/0/15	105	E		5						
CSE337	Information retrieval systems	2	PD, CCH	5	150	30/0/15	105	E		5						
M-3. Practice-oriented module																
AAP355	Research practice		PD, UC	10				R			10					
M-4. Experimental research module																
AAP347	Research work of the doctoral student, including internships and doctoral dissertation		RWDS	20				R	20							
AAP336	Research work of the doctoral student, including internships and doctoral dissertation		RWDS	5				R		5						
AAP347	Research work of the doctoral student, including internships and doctoral dissertation		RWDS	20				R			20					
AAP356	Research work of the doctoral student, including internships and doctoral dissertation		RWDS	30				R				30				
AAP356	Research work of the doctoral student, including internships and doctoral dissertation		RWDS	30				R					30			
AAP348	Research work of the doctoral student, including internships and doctoral dissertation		RWDS	18				R							18	
M-5. Module of final attestation																
ECA325	Final examination (writing and defending a doctoral dissertation)		FA	12											12	
Total based on UNIVERSITY									30	30	30	30	30	30		

	60	60	60	
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Number of credits for the entire period of study

Cycle code	Cycles of disciplines	Credits			
		Required component (RC)	University component (UC)	Component of choice (CCH)	Total
GED	Cycle of general education disciplines	0	0	0	0
BD	Cycle of basic disciplines	0	20	5	25
PD	Cycle of profile disciplines	0	10	10	20
Total for theoretical training:		0	30	15	45
RWDS	Research Work of Doctoral Student				123
ERWDS	Experimental Research Work of Doctoral Student				0
FA	Final attestation				12
TOTAL:					180

Decision of the Educational and Methodological Council of KazNRTU named after K.Satpayev. Minutes № 3 dated 20.12.2024

Decision of the Academic Council of the Institute. Minutes № 4 dated 22.11.2024

Signed:

Governing Board member - Vice-Rector for Academic Affairs

Uskenbayeva R. K.

Approved:

Vice Provost on academic development

Kalpeyeva Z. B.

Head of Department - Department of Educational Program
Management and Academic-Methodological Work

Zhumagaliyeva A. S.

acting Director of Institute - Institute of Automation and
Information Technologies

Chinibayev Y. I.

Department Chair - Cybersecurity, information processing and
storage

Satybaldiyeva R. Ж.

Representative of the Academic Committee from Employers

Mamyrbayev O. Z.

____ Acknowledged ____

