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Chairman of the
Educational and Methodological
Council of JSC «International Information
Technology University»



Mustafina A.

«12» December 2024 Protocol of the EMC № 3

APPROVED

Chairman of the Board-Rector of JSC
«International Information
Technology University»



Issakhov A.

«28» February 2025 Protocol of the AC № 10

EDUCATIONAL PROGRAM

8D06102 Computer and software engineering

Code and classification of the field of education: 8D06 Information and Communication Technology

Code and classification of training area: 8D061 Information and Communication Technology

Group of educational programs: D094 Information Technology

ISCED level: 8

NQR level: 8

ORC level: 8

Academic degree awarded: Doctor PhD in the educational program “8D06102 Computer and Software Engineering”

Duration of study: 3 years

Number of credits: 180

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Executive director of
«KazRENA Association» ALE
Tatybayev S.K.



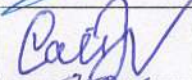
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Director of
«KnewIT Programming School» LLC
Bekaulyov N.M.



Almaty, 2025

The code and name of the educational program: 8D06102 Computer and software engineering

№	Educational program developers (Position, scientific degree, academic degree, Full name)	Signature
1	Cand. of Tech. sc, associate professor of the «CE» department A.A. Bykov	
2	Cand. of Phys. & Math. sc, associate professor of the «CE» department S.Z.Sapakova	
3	Assistant professor of the department "CE" S. Joldasbayev	

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List of abbreviations and acronyms

BD	Cycle of basic disciplines
BC	Basic competency
BM	Basic module
UC	University component
HE	Higher education
NMS	National Mandatory Standards of Higher and Post-Graduate Education
ATT	Additional types of training
EQF	European qualifications framework
EFE	European foundation for education
KSA	Knowledge, Skills and Abilities
FA	Final attestation
EC	Elective component
ISCED	International Standard Classification of Education
NQF	National qualifications framework
NQS	National qualifications system
GHM	General humanitarian module
RC	Required component
GEM	General education module
GED	Cycle of general education disciplines
EP	Educational program
GPM	General professional module
SQF	Sectoral qualifications framework
GEC	General education competency
MD	Cycle of major disciplines
PI	Professional internship
PS	Professional standard
PE	Postgraduate education
PC	Professional competency
PM	Professional module
LO	Learning outcome
QMS	Quality Management System

1. Description of the educational program

The educational program 8D06102 «Computer and software engineering» is designed to implement the principles of democratic education management, expanding the boundaries of academic freedom and the powers of educational institutions, which will ensure the adaptation of the system of technical and vocational education to the changing needs of society, the economy of the labor market. The flexibility of the program will take into account the abilities and needs of the individual, production and society.

The educational program is developed taking into account the needs of the labor market in the field of information and communication technologies. This educational program ensures the application of an individual approach to students, ensures the transformation of professional competencies from professional and qualification standards into learning outcomes. Student-centered learning is provided. This principle of education implies a shift in emphasis in the educational process from teaching to learning.

The fields of professional activities of graduates are higher educational institutions, research institutions, production of software development for information and computing systems for various purposes, software companies, IT departments of industrial enterprises, design organizations, public and private enterprises and organizations that develop, implement and use computer hardware and software in various fields, in other words almost all spheres of human activity.

2. Aim and objectives of the educational program

The purpose of the EP - The training of researchers in the field of ICT, software development managers, and data analysis for the IT industry of Kazakhstan.

AP objectives:

1. Prepare researchers in the field of software development.
2. Train to conduct the research work related to the objects of professional activity, and to conduct the analysis of existing concepts, theories and approaches to the development of programs and corporate information systems.
3. Develop the ability to create new and improve existing methods and algorithms for data processing in information and computing system.
4. Teach to apply the obtained theoretical and practical knowledge in solving theoretical and practical problems in the field of ICT, carry out successfully management and research activities.
5. Instill skills independently and constantly acquire, develop and apply professional knowledge, skills and abilities to solve non-standard tasks (interdisciplinary, etc.).
6. Familiarize with the system analysis to solve complex technical problems and apply the results of the analysis for the greatest optimization of the software development process.
7. Teach to optimize the software development process.
8. Teach to summarize the results of research and analytical work in the form of a dissertation, scientific articles and papers for scientific conferences, reports, analytical notes, etc.

3. Passport of the academic program

№	Name	Description
1.	Education area code and classification	8D06 Information and Communication Technologies
2.	Training direction code and classification	8D061 Information and Communication Technologies
3.	Group of academic programs	D094 Information Technologies
4.	Name of the educational program	8D06102 Computer and software engineering
5.	Aim of the educational program	The training of researchers in the field of ICT, software development managers, and data analysis for the IT industry of Kazakhstan.
6.	Type of the educational program	current

7.	Level according to the National Classifications Framework	8
8.	Level according to the Sectoral Qualifications Framework	8
9.	Distinctive features of the program	-
10.	Partner University	-
11.	Academic degree awarded	Doctor of Philosophy (PhD) degree in the educational program 8D06102 - Computer and Software Engineering
12.	Duration of study	3 years
13.	Volume of credits	180 credits ECTS
14.	Language of education	Russian, English
15.	Atlas of new professions	Not provided
16.	Regional standard	Not provided
17.	Availability of an attachment to the training license	Available
18.	License number for the training area	KZ81LAM00001263
19.	Availability of program accreditation	ASIIN
20.	Generated learning outcomes	LO1: Experiment with software and/or hardware configurations to interpret and predict results. LO2: Analyze the research area and outline hypotheses regarding appropriate models, algorithms, and architectures. LO3: Analyze the behavior and response of the computing environment (operating system, network, virtual machines, distributed software, server load balancing, etc.). LO4: Create and evaluate algorithms and models for various software and/or hardware computing environments. LO5: Analyze machine learning algorithms and methods, develop software systems for processing large-scale structured and semi-structured data. LO6: Draw conclusions regarding the scope of the research and justify the results obtained during the research. LO7: Define the scope of the research, research objectives, and propose their implementation in software and/or hardware with a theoretical and practical focus on programming, coding, and computing. LO8: Formulate hypotheses regarding mathematical models, software and/or hardware architecture, software algorithms and propose them to the scientific community. LO9: Design and adapt courses taking into account learning objectives, digital technologies and learners' needs. LO10: Carry out teaching activities using modern pedagogical approaches, including digital and inclusive practices

4. Professional Standards (PS), profession cards, labor functions

№	Name of the PS	Profession card	Labor functions
1	Software testing	ICT Researcher	1. Analyzing problems to develop solutions using computer hardware and software 2. Defining the goal and objective, and the scientific apparatus of the study 3. Conducting research, experimentation and collecting evidence on the topic
2	Professional standard: for teachers (teaching staff) of higher and (or) postgraduate education institutions	Teacher, professor in the field of education, Organization of higher and postgraduate education (OHPE)	1. Training 2. Conducting scientific research 3. Carrying out scientific and methodological work 4. Interaction with stakeholders of higher and postgraduate education
		Lecturer, Associate Professor, Professor in Education, OHPE	1. Training 2. Conducting scientific research 3. Carrying out scientific and methodological work 4. Interaction with stakeholders of higher and postgraduate education
		Lecturer, Associate Professor (Associate Professor) in Education, OHPE	1. Training 2. Conducting scientific research 3. Carrying out scientific and methodological work 4. Interaction with stakeholders of higher and postgraduate education
		Lecturer, Assistant Professor in Education, OHPE	1. Training 2. Conducting scientific research 3. Carrying out scientific and methodological work 4. Interaction with stakeholders of higher and postgraduate education

5. List of the EP competencies

BC1: Ability to use the acquired knowledge, as well as modern research methods and the latest achievements of computer technologies and software, to develop and apply ideas in an original way in the context of scientific research.

BC2: Ability to formalize research tasks, develop software products for their implementation and manage their implementation.

BC3: Ability to use the acquired knowledge to solve practical problems in the field of ICT.

BC4: Ability to generalize the results of research and analysis in the form of a dissertation, scientific article, reports at scientific and technical conferences, reports, analytical notes, etc.

BC5: Skills of teaching and pedagogical activity in the field of ICT.

PC1: Ability to develop software architecture with a high level of continuity and quality of complex software developments using advanced ICT solutions.

PC2: Ability to conduct analysis to solve complex software (technical) problems and ensure the implementation of optimal solutions.

PC3: Ability to select and develop methods for analyzing objects of professional activity based on general trends in software development.

PC4: Competence in using complex theoretical and practical methods to analyze and solve current problems in the field of ICT, while successfully performing management functions and conducting scientific research.

PC5: Ability to create scientific groups, organize and coordinate collective scientific work.

6. List of learning outcomes of the EP

LO1: Experiment with software and/or hardware configurations to interpret and predict results.

LO2: Analyze the research area and outline hypotheses regarding appropriate models, algorithms, and architectures.

LO3: Analyze the behavior and response of the computing environment (operating system, network, virtual machines, distributed software, server load balancing, etc.).

LO4: Create and evaluate algorithms and models for various software and/or hardware computing environments.

LO5: Analyze machine learning algorithms and methods, develop software systems for processing large-scale structured and semi-structured data.

LO6: Draw conclusions regarding the scope of the research and justify the results obtained during the research.

LO7: Define the scope of the research, research objectives, and propose their implementation in software and/or hardware with a theoretical and practical focus on programming, coding, and computing.

LO8: Formulate hypotheses regarding mathematical models, software and/or hardware architecture, software algorithms and propose them to the scientific community.

LO9: Design and adapt courses taking into account learning objectives, digital technologies and learners' needs.

LO10: Carry out teaching activities using modern pedagogical approaches, including digital and inclusive practices

7. Matrix for correlating the learning outcomes of the EP with the formed competencies (V)

	LO1	LO2	LO3	LO4	LO5	LO6	LO7	LO8	LO9	LO10
BC1	V	V	V	V					V	V
BC2	V	V	V	V	V					
BC3		V		V	V	V	V			
BC4			V					V	V	V
BC5			V					V	V	V
PC1		V	V		V	V				
PC2			V	V	V	V	V			
PC3	V	V		V		V	V			
PC4	V	V	V	V	V	V	V	V		
PC5	V		V	V					V	V

8. The relationship of LO with labor functions

№	LO	Labor functions
1.	LO1: Experiment with software and/or hardware configurations to interpret and predict results.	Conducting research, experiments and collection of evidence on the topic Analysis of problems for the development of solutions using computer equipment and software Conducting scientific research
2.	LO2: Analyze the research area and outline hypotheses regarding appropriate models, algorithms, and architectures.	Conducting research, experiments and collection of evidence on the topic Conducting scientific research

		Analysis of problems for the development of solutions using computer equipment and software
3.	LO3: Analyze the behavior and response of the computing environment (operating system, network, virtual machines, distributed software, server load balancing, etc.).	Analysis of problems for the development of solutions using computer equipment and software Conducting research, experiments and collection of evidence on the topic Implementation of scientific and methodological work Conducting scientific research Education
4.	LO4: Create and evaluate algorithms and models for various software and/or hardware computing environments.	Analysis of problems for the development of solutions using computer equipment and software Conducting research, experiments and collection of evidence on the topic Definition of goals and tasks, and scientific research apparatus Implementation of scientific and methodological work Conducting scientific research
5.	LO5: Analyze machine learning algorithms and methods, develop software systems for processing large-scale structured and semi-structured data.	Implementation of scientific and methodological work Education Conducting scientific research Analysis of problems for the development of solutions using computer equipment and software Conducting research, experiments and collection of evidence on the topic Definition of goals and tasks, and scientific research apparatus
6.	LO6: Draw conclusions regarding the scope of the research and justify the results obtained during the research.	Implementation of scientific and methodological work Conducting scientific research Conducting research, experiments and collection of evidence on the topic Analysis of problems for the development of solutions using computer equipment and software
7.	LO7: Define the scope of the research, research objectives, and propose their implementation in software and/or hardware with a theoretical and practical focus on programming, coding, and computing.	Analysis of problems for the development of solutions using computer equipment and software Conducting research, experiments and collection of evidence on the topic Definition of goals and tasks, and scientific research apparatus Implementation of scientific and methodological work Education
8.	LO8: Formulate hypotheses regarding mathematical models, software and/or hardware architecture, software algorithms	Analysis of problems for the development of solutions using computer equipment and software

	and propose them to the scientific community.	Definition of goals and tasks, and scientific research apparatus Conducting research, experiments and collection of evidence on the topic Implementation of scientific and methodological work Conducting scientific research Interaction with stakeholders of higher and further education
9.	LO9: Design and adapt courses taking into account learning objectives, digital technologies and learners' needs.	Analysis of problems for the development of solutions using computer equipment and software Definition of goals and tasks, and scientific research apparatus Implementation of scientific and methodological work Interaction with stakeholders of higher and further education Education Conducting scientific research
10.	LO10: Carry out teaching activities using modern pedagogical approaches, including digital and inclusive practices	Definition of goals and tasks, and scientific research apparatus Implementation of scientific and methodological work Interaction with stakeholders of higher and further education Education Analysis of problems for the development of solutions using computer equipment and software

9. Table showing interconnection of competencies, learning outcomes, assessment methods and criteria

Competencies of the EP graduate	Competences expressed in expected learning outcomes	Evaluation criteria	Name of the estimation method
Basic competencies			
BC1	LO1	Determines the scope of research and formulates tasks	Analysis of a scientific task (case)
	LO2	Proposes hypothesis and model	Protection of the project proposal
	LO3	Justifies the obtained results	Scientific report
	LO4	Experiments, interprets and predicts results	Practical work (laboratory)
	LO9	Designs and adapts training courses taking into account learning goals and digital technologies	Development of educational program, methods

	LO10	He teaches using modern pedagogical approaches	Self-analysis, training
BC2	LO1	Formalizes the task of research	Project work
	LO2	Develops software products	Protection of course work
	LO3	Justifies the obtained results	Protection of coursework
	LO4	Conducts an experiment	Laboratory work
	LO5	Interprets computing environments	Laboratory works
BC3	LO2	Implements applied programming tasks	Practical work
	LO4	Analyzes the configuration	Laboratory work
	LO5	Evaluates computing environments	Practical work
	LO6	Develops and evaluates the algorithm	Software development
	LO7	Analyzes data in different structures	Analytical report
BC4	LO3	Summarizes scientific results	Scientific article
	LO8	It formulates the justification of the results of the research	Dissertation (report)
	LO9	Designs and adapts training courses taking into account learning goals and digital technologies	Development of educational program, materials
	LO10	He teaches using modern pedagogical approaches	Assessment, self-analysis
BC5	LO3	Performs pedagogical activities	Presentation of educational materials
	LO8	Analyzes pedagogical results	Educational project
	LO9	Designs and adapts training courses taking into account learning goals and digital technologies	Development of educational program, materials
	LO10	He teaches using modern pedagogical approaches	Assessment, self-analysis
Professional competencies			
PC1	LO2	Develops complex software architecture	Architectural project
	LO3	Justifies project decisions	Expert assessment of the project
	LO5	Performs analysis of computing environments	Laboratory analysis
	LO6	Creates and tests an algorithm	Practical testing
PC2	LO3	Solves complex software tasks	Course work
	LO4	Experiments with software solutions	Laboratory work
	LO5	Evaluates computing environments	Practical work
	LO6	Creates optimal solutions	Design software
	LO7	Analyzes large volumes of data	Analytical report
PC3	LO1	Defines research tasks	The basis of research

	LO2	Develops methods and models	Research work
	LO4	Interprets the results	Scientific report
	LO6	Creates an algorithm for new tasks	Practical work
	LO7	Processes data of various structures	Analytical work
PC4	LO1-LO8	Applies knowledge for analysis, design, implementation and evaluation of solutions	Complex project, defense thesis
PC5	LO1	Organizes scientific work	Guide to the research project
	LO3	Evaluates research results	Expert assessment
	LO4	Organizes a research experiment	Practical work,
	LO8-LO10	Summarizes the scientific conclusion	Methodical documentation, pedagogical portfolio

10. Information about the modules of the educational program

Module code and name	Volume (labor intensity) of the module	Learning outcomes	Learning outcomes assessment criteria	Disciplines forming the module Code and name
BASIC MODULES				
BM8301 Scientific and pedagogical training	19	LO1-LO10	Study of types of scientific research, methodology of scientific knowledge, conducting research, forming conclusions and findings, writing scientific articles and conference reports, generalizing the results of scientific research work in a dissertation, its structure and content.	LAN8001A Research Methods
			Acquisition of skills and abilities necessary for effective writing of scientific papers of different categories (thesis, article, report, dissertation) taking into account the grammatical, stylistic and punctuation features of written scientific speech.	RM8001 Academic Writing
			Practice is aimed at consolidating, expanding, deepening and systematizing knowledge on the methodology of teaching special and professional disciplines.	PP8301 Teaching Practice
Research work	123	LO1-LO8	Experience is gained in researching a current scientific problem, information sources on the topic being developed, methods of modeling and research of information processes are studied. Methods of analysis and processing of static data are studied; information technologies used in scientific research, software products related to the professional sphere; requirements for the design of scientific and technical documentation.	RW8001 DSRW
PROFESSIONAL MODULES				

PM8301 Modern Technology and Research	18	LO1-LO8	Study of algorithms and methods of machine learning, artificial neural networks, computer vision, natural language and other areas related to artificial intelligence.	SFT8303 Formative Artificial Intelligence
			Study of the basic principles and concepts related to quantum physics and quantum information science.	SFT8304 Fundamentals of Quantum Computing
			Experience is gained in studying a current scientific problem, information sources on the topic being developed, methods of modeling and research of information processes are studied.	PP8303 Research Internship
PM8302 Software Engineering and Digital Innovation	16	LO1-LO8	Study of a new modern approach to software development – model-oriented architecture.	SFT8305 Model-based Software Development
			Organization of scientific activities on development of blockchain technologies and replicated distributed database (implemented in the Bitcoin system) is aimed at expanding the application of blockchain technology in various fields, and not only in cryptocurrencies.	SFT8307 Blockchain Theory and Technology
			Study of the latest achievements in the field of analysis, storage and processing of big data.	SFT8306 Big Data and Large Systems Technology
			The course studies the basics of the emerging technological trend – the Internet of behavior, as a logical continuation of the Internet of things. Both technical and legal and ethical issues regarding the application of this technology are considered.	SFT8310 Internet of Behavior

4.	SFT8305 Model-based Software Development	Study of a new modern approach to software development – model-oriented architecture.	4	LO3 LO5 LO8	-	-
5.	SFT8307 Blockchain Theory and Technology	The course examines the main technical aspects of Blockchain technology, principles of operation, application possibilities and development prospects.	4	LO4 LO5	-	-
6.	SFT8310 Internet of Behavior	The course examines the basics of an emerging technological trend – the Internet of behavior, as a logical continuation of the Internet of things. Both technical and legal and ethical issues regarding the application of this technology are considered.	4	LO1-LO6	-	-
7.	SFT8306 Big Data and Large Systems Technologies	Study of the latest achievements in the field of analysis, storage and processing of big data.	4	LO1-LO6	-	-
Cycle of major disciplines (MD)						
Elective component (EC)						
8.	SFT8303 Formative Artificial Intelligence	The course studies the development of artificial intelligence technology - formative AI that is able to adapt to external conditions. Such options as dynamically adapting artificial intelligence and automatically generating new models for specific tasks are considered.	4	LO5	-	-
9.	SFT8304 Fundamentals of Quantum Computing	The goal of this course is to study the basics of quantum computing, quantum computing models and efficient quantum algorithms. Approaches to the problem of constructing quantum computing models are considered.	4	LO1 LO2 LO4	-	-
10.	PP8303 Research Internship	Experience is gained in studying a current scientific problem, information sources on the topic being developed, methods of modeling and research of information processes are studied.	10	LO6-LO8	-	-

12. Curriculum of the educational program (Platonus)

Module code	Module name	Discipline cycle	Discipline component	Code of subject	Subject name	Academic credits	Control in the academic period					Volume of hours						Distribution of credits per academic period							
							Exams	Differentiated teaching/assessment	Differentiated teaching/assessment	Practice/SRW teaching/assessment	Term teaching/assessment	Total	In-class learning	including			DSIWT	DSIW	1 course		2 course		3 course		
														Lectures	Practice	Lab practical work			1	2	3	4	5	6	
Additional modules beyond qualification																									
1		BS	UC	SFT8303	Formative Artificial Intelligence	4						120.0	30.0	15	0	15	15	75	4.0						
2		BS	UC	RM8001	Research methods	4	1					120.0	30.0	15	0	15	15	75	4.0						
3		BS	UC	PP8301	Teaching practice	10				300		300.0		0	0	0	0	0	10.0						
4		BS	UC	LAN8001A	Academic writing	5	2					150.0	45.0	0	45	0	15	90		5.0					
5		AS	UC	SFT8304	Principles of Quantum Computing	4						120.0	30.0	15	0	15	15	75	4.0						
6		AS	UC	PP8303	Research practice	10				300		300.0		0	0	0	0	0				10.0			
7		AS	ES	SFT8305	Model Driven Software Engineering	4	2					120.0	30.0	15	0	15	15	75		4.0					
8				SFT8307	Blockchain Theory and Technology		2						30.0	15	0	15	15	75							
9		AS	ES	SFT8310	Internet of Behaviors	4	2					120.0	30.0	15	0	15	15	75		4.0					
10				SFT8306	Big Data Technologies and Big Systems		2						30.0	15	0	15	15	75							
11		RW	CS	RW8002	The research work of a PhD student, including an internship and implementation	8				240		240.0		0	0	0	0	0	8.0						

				of doctoral thesis																				
12		RW	CS	RW8001	The research work of a PhD student, including an internship and implementation of doctoral thesis	17				510	510.0		0	0	0	0	0		17.0					
13		RW	CS	RW8003	The research work of a PhD student, including an internship and implementation of doctoral thesis	30				900	900.0		0	0	0	0	0		30.0					
14		RW	CS	RW8004	The research work of a PhD student, including an internship and implementation of doctoral thesis	20				600	600.0		0	0	0	0	0			20.0				
15		RW	CS	RW8005	The research work of a PhD student, including an internship and implementation of doctoral thesis	30				900	900.0		0	0	0	0	0					30.0		
16		RW	CS	RW8006	The research work of a PhD student, including an internship and implementation of doctoral thesis	18				540	540.0		0	0	0	0	0							18.0
Weekly average workload at hours																		0	0	0	0	0	0	0
1	General education subjects(GER)					0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	Core subjects(GER/CS)	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	University component(GER/UC)	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Electives(GER/ES)	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Base requirements(BS)	23		0	0	300	0	690	105	30	45	30	45	240	18	5	0	0	0	0
	Core subjects(BS/CS)	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	University component(BS/UC)	23		0	0	300	0	690	105	30	45	30	45	240	18	5	0	0	0	0
	Electives(BS/ES)	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Profession requirements(VRS)	22		0	0	300	0	660	90	45	0	45	45	225	4	8	0	10	0	0
	Core subjects(VRS/CS)	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	University component(VRS/UC)	14		0	0	300	0	420	30	15	0	15	15	75	4	0	0	10	0	0
	Electives(VRS/ES)	8		0	0	0	0	240	60	30	0	30	30	150	0	8	0	0	0	0
4	Disciplines for the formation of professional competencies(BDFPC)	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Core subjects(BDFPC/CS)	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	University component(BDFPC/UC)	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Electives(BDFPC/ES)	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Disciplines of personal development and the formation of leadership qualities(BDPD)	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Core subjects(BDPD/CS)	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	University component(BDPD/UC)	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Electives(BDPD/ES)	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total of theoretical course		45	4	0	0	600	0	1350	195	75	45	75	90	465	22.0	13.0	0.0	10.0	0.0	0.0
USRW/UERW/DSRW		123	0	0	0	3690	0	3690	0	0	0	0	0	0	8.0	17.0	30.0	20.0	30.0	18.0
AC	Additional courses								0											
FA	Final attestation	12							360.0											
	Writing and defending a doctoral dissertation	12				6			360											
	Total	180				4296		5400	195	75	45	75	90	465						