



1. CONTENT OF THE EDUCATIONAL PROGRAM

№	Code and title of the modules	Total ECTS	№	Code and title of the disciplines	Academic credits of the discipline	Cycle/component
1	ISE Module 1 Integration of science and education	20	1	ISE 51 History and philosophy of science	5	CC/UC
			2	ISE 52 Foreign language (professional)	5	CC/UC
			3	ISE 53 Higher Education Pedagogy and Psychology	5	CC/UC
			4	ISE 65 Pedagogical practice	5	CC/UC
2	IRS Module 2 Improving Research Skills	18	1	IRS 51/1 Academic research and critical analysis of literature	6	MC/ UC
			2	IRS 53201 Research design and ethical standards	6	MC/ UC
			3	IRS 55/1 Qualitative and Quantitative Research Methods	6	MC/ UC
3	SC Subject competence Module 3	15	1	SC 51201/1 Pedagogical concepts of early development SC 51201/2 Anthropology of childhood	5	CC OC
			2	SC 62201/1 Leadership and strategic management in a preschool organization SC 62201/2 Professional identity of a teacher in preschool education	5	CC OC
			3	SC 63201/1 Development of a psychologically comfortable educational environment SC 63201/2 Gamification in preschool education	5	CC OC
4	PC Professional competencies Module 4	30	1	PC 52201/1 Modern approaches to childhood and parenting PC 52201/2 Game learning in a	5	MC OC



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				preschool organization		
			2	PC 53201/1 Methods of teaching pedagogical disciplines PC 53201/2 Methodological support of preschool education	5	MC OC
			3	PC 61201/1 Assessment of the quality of preschool education PC 61201/2 Educational marketing in preschool organization	5	MC OC
			4	PC 63201/1 Digital pedagogy in the preschool education system PC 63201/2 /Psychological and pedagogical expertise of the educational process	5	MC OC
			5	PC 64201/1 Sustainable development in preschool education PC 64201/2 Development of preschool children's research activities	5	MC OC
			6	PC 65201/2 Designing the educational process of a preschool organization PC 65201/2 Development of a preschool organization development program	5	MC OC
5	RW Module 5 Research Work	29	1	RW 510/610 Research practice	5	MC/ UC
			2	RW 521-624 Undergraduate research work, including internships and the implementation of a Master's thesis (MRW)	24	MRW
6	FE Final examination		3	FE 610 Registration and defense of the Master's thesis (RDMT)	8	FC
TOTAL:		120			120	



2.1. INFORMATION ABOUT MODULES AND DISCIPLINES

ISE– 1 Integration of science and education <i>Module Description:</i> The module is aimed at exploring the interrelationship between science and education. It covers key aspects of the history and philosophy of science, the specifics of professional foreign language training, the principles of higher education pedagogy, as well as the fundamentals of management psychology. Master's students acquire both theoretical and practical approaches to integrating scientific knowledge into educational practice and, conversely, to understanding the influence of the educational environment on the development of scientific thought. The module develops masters' critical thinking, academic communication skills, and the ability to implement interdisciplinary concepts in practical activities.							
№	Code and title of the discipline	Cycle/ component	ECTS	Description of the discipline	Methods of teaching	Learning outcomes	Assessment methods
1	ISE 51 History and philosophy of science	CC/ UC	5	The discipline "History and Philosophy of Science" provides master's students with an understanding of the evolution of thought in the context of the development of the scientific method. Using critical thinking and comparative analysis skills, master's students analyze key philosophical concepts and their impact on scientific discoveries. They evaluate the influence of ideologies on the formation of scientific paradigms and apply intellectual skills to compare and assess different approaches to knowledge. Through discussion and exploration of historical contexts, master's students develop skills in analyzing and synthesizing information, as well as a deeper understanding of the	Lectures and seminar discussions Case studies Source analysis Collaborative research projects	LO 1	Written



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				relationship between philosophy and science.			
2	ISE 52 Foreign language (professional)	CC/ UC	5	The discipline is designed to ensure the acquisition of a super-basic standard at a minimum of B1 level and to develop intercultural and communicative competence among graduate students in non-linguistic fields. It expands and improves students' language skills within the scope of their professional activities. The discipline includes the study of specific vocabulary, terminology, and communication strategies relevant to the field of their master's program.	Content and Language Integrated Learning (CLIL) technology Listening to podcasts and lectures Reading and analyzing articles	LO 1	Written
3	ISE 53 Pedagogy and Psychology of Higher Education	CC/ UC	5	The discipline is aimed at providing master's students with in-depth knowledge in the fields of higher education pedagogy and psychology. During the discipline, master's students explore innovative methods for organizing the learning process, designing educational programs, assessing student academic performance, and analyzing the psychological aspects of leadership, including motivation, leadership, communication, and conflict management. Master's students also become familiar with research principles in the field of pedagogy and develop professional skills necessary for	Lectures with interactive elements Case analysis Thematic discussions Situational and problem-based learning (PBL) Collaborative learning and group projects	LO 2	Written



				a successful career in higher education. The discipline examines the application of psychological management concepts in educational institutions, helping students develop analytical and decision-making skills in complex situations.			
4	ISE 65 Pedagogical practice	CC/ UC	5	The master's student pedagogical internship includes practical training aimed at familiarizing students with teaching methods, as well as with the main approaches and methods of instruction and воспитание. It also involves organizing and conducting classes or educational activities at a higher education institution in accordance with the curriculum and academic program. An important aspect is working with students, including adapting materials to their level and needs, as well as assessment and feedback in order to improve teaching skills and prepare scientifically for future professional activity.	Teaching and learning process	LO 3 LO 5 LO 6 LO 7	Report

IRS – 2 Improving Research Methods

Description of the module: The module is designed to provide master's students with a comprehensive understanding of the theoretical foundations and practical strategies for effectively organizing and managing research projects. It aims to equip students with the knowledge and skills necessary for planning, conducting, and disseminating scientific work efficiently.



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№	Code and title of the discipline	Cycle/ component	ECTS	Description of the discipline	Methods of teaching	Learning outcomes	Assessment methods
1	IRS 51/1 Academic research and critical analysis of literature	MC/ UC	6	The discipline “Academic Research and Critical Literature Analysis” is aimed at developing graduate students’ research culture. Within the course, students acquire skills in searching for information in international databases (Scopus, Web of Science), critically evaluating academic texts, and conducting a literature review. In addition, principles of academic integrity and international citation standards (APA, MLA, etc.) are covered. The course enhances students’ ability to conduct independent research and provides a foundation for producing high-quality academic papers and dissertations.	Critical analysis of scientific articles Working with academic texts Preparing a Literature Review Working with digital databases (Scopus, Web of Science, Google Scholar) Reflection and self-analysis	LO 3	Essay / Project Research Article
2	IRS 53 Research design and ethical standards in education	MC/ UC	6	Master's students explore various aspects of research design, including formulating research questions, selecting methodology, developing data collection tools, and planning data analysis procedures. The discipline also places special emphasis on	Designing a scientific research study Analyzing ethical dilemmas Critical analysis of	LO 3	Essay / Project



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				the ethical standards and regulations governing educational research, such as data confidentiality and the rights and well-being of research participants. Instruction includes the practical application of acquired knowledge for designing and implementing research projects, equipping master's students with the skills needed to conduct high-quality and ethically sound research in the field of education.	scientific articles Group discussions and debates Research assignments Presentation preparation and defense		
3	IRS 55/1 Qualitative and Quantitative Research Methods	MC/ UC	6	The aim of the discipline is to equip master's students with the methods of quantitative analysis in the fields of education and social sciences. Master's students learn the basics of planning quantitative research, developing data collection tools (questionnaires, surveys), sampling principles, and statistical data processing methods using modern software. Special emphasis is placed on hypothesis formulation, result interpretation, testing statistical assumptions, and data visualization	Designing a scientific research study Analyzing ethical dilemmas	LO 3 LO 4	Essay / Project



Module 3: Subject Competence

Description of the module: Aims to deepen master's students' theoretical knowledge, develop their professional and pedagogical thinking, and ensure mastery of modern educational content, including the scientific and methodological foundations of teaching, children's age-related and psychophysiological characteristics, and modern technologies and methods of teaching and upbringing.

№	Code and title of the discipline	Cycle/ component	ECTS	Description of the discipline	Methods of teaching	Learning outcomes	Assessment methods
1	SC 51201/1 Pedagogical concepts of early development	CC /OC	5	The discipline is aimed at developing professional competencies in the field of preschool education through mastering modern approaches and exploring personal practices. During the discipline, master's students demonstrate knowledge of philosophical and pedagogical concepts of childhood. They study preschool childhood as a socio-cultural and pedagogical phenomenon; issues of early child development as a subject of child activity; and trends in the development of modern preschool education. Students analyze research on contemporary childhood issues. They initiate general didactic principles for selecting educational content for preschool children. They define the specifics and genesis of children's activities (play). They conduct research and analysis of scientific information using digital tools and are able	<ul style="list-style-type: none"> - collaborative work (pair and group work); - individual and joint research projects; - discussions; - working with various sources of information (books, lectures, internet, documents, etc.); - creative assignments; - case studies; - presentations. 	LO 2 LO 5 LO 6	Verbally



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				to argue their viewpoints based on the fundamental foundations of the studied discipline.			
	SC 51201/2 Anthropology of childhood			Discipline objective: To develop in master's students a scientific understanding of childhood as a cultural and social phenomenon within the context of early childhood education. Within the discipline, students will explore approaches to the analysis of childhood in educational anthropology and reflect on the adult's role in shaping a child's experience. Emphasis will be placed on developing a critical perspective on pedagogical practices, the learning environment, and adult-child interactions. The discipline also includes the analysis of educational practices, the study of children's communication, play, and the development of empathy through observation. Students will engage with practical scenarios, organization and interpretation of children's practices (such as play, drawings, and speech), video materials, case studies, and more.	<ul style="list-style-type: none"> - reflective essays. - field ethnographic observation in the - presentation of a project about children's culture. - discussion of practical cases. - presentations 	LO 5 LO 6 LO 9 LO 11	Written
2	SC 62201/1 Leadership and strategic			The discipline is aimed at developing managerial, strategic, and leadership qualities in master's students necessary for	-The "Socratic Dialogue" method; Training;	LO 5 LO 10	Essay



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	management in a preschool organization	CC OC	5	the effective functioning of preschool organizations. The discipline covers: theories and styles of leadership in education, the specifics of strategic management in the preschool system; the mission, vision, and goals of preschool organizations; analysis and forecasting of preschool activities; innovative leadership and project management; effective communication and decision-making. Master's students will develop competencies such as the ability to use diagnostic and monitoring methods, skills in analyzing and forecasting preschool activities, evaluating the effectiveness and sustainability of preschool development (SWOT analysis), and building cooperation with parents, educators, and external partners.	Thematic discussions; Brainstorming	LO 11 LO 12	
	SC 62201/2 Professional identity of a teacher in preschool education			The discipline is focused on studying the phenomenon of professional identity of educators in the context of preschool education. The discipline content includes various aspects aimed at developing a conscious understanding of the professional role of a preschool teacher, as well as enhancing pedagogical skills and competencies. Master's students will	-The "Socratic Dialogue" method; Training; Thematic discussions; Brainstorming	LO 5 LO 6 LO 7 LO 8	Written



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				<p>explore the core principles and values that underlie professional activity, along with methods of effective interaction with preschool children, their parents, and colleagues in accordance with the Professional Standard "Pedagogue" and other relevant standards for educators.</p> <p>Practical sessions are designed to foster personal qualities, adaptability to various educational situations, and strategies for self-reflection essential for becoming a competent and professionally prepared preschool teacher. As part of the discipline, students will acquire practices of self-analysis and reflection on their professional experiences.</p>			
3	SC 63201/1 Development of a psychologically comfortable educational environment	CC OC	5	The discipline focuses on the study of strategies and methods aimed at creating a supportive, psychologically comfortable, and safe environment for children's learning and development. The goal of the discipline is to equip master's students with the necessary knowledge and skills to successfully create and maintain a psychologically favorable educational environment that supports effective learning and the holistic development of children.	Audio and video equipment (video projectors) and information technology (Power-Point presentations, video recordings, an interactive whiteboard for demonstrating circuits) will be	LO 7 LO 8 LO 9 LO 10	Essay



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				Within the discipline, students will study the psychological, pedagogical, and social aspects of environment creation, the conditions for ensuring safety and well-being, the role of the educator in establishing a positive climate, conflict prevention and resolution, as well as techniques for developing emotional intelligence and empathy in both educators and children.	involved.		
	SC 63201/2 Gamification in preschool education			The goal of the discipline is to increase engagement and motivation for learning. The discipline explores gamification in early childhood education and the organization of play-based activities for preschool children that support the development of real-life experience. Master's students demonstrate knowledge of the essence of gamification, design thinking, and gamification tools used in organizing the educational process in preschools. They design game-based learning models, integrate play into non-play contexts, and apply digital educational resources to support preschoolers' structured learning activities. Students also develop quests—digital content for preschool children—and create programs to engage	The "decision tree" method; "Press conference"; Project-based learning method	LO 5 LO 7 LO 9 LO 10	Written



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				families in the educational process, effective feedback based on assessment results.			
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Module 4 Professional competencies

Description of the module: Aims to develop master's students' competencies necessary for the effective organization of professional activities, management of the pedagogical process, and implementation of innovative practices, as well as mastery of modern pedagogical technologies, inclusive and learner-centered teaching approaches, and methods for assessing and monitoring children's development.

№	Code and title of the discipline	Cycle/ component	ECTS	Description of the discipline	Methods of teaching	Learning outcomes	Assessment methods
1	PC 52201/1 Modern approaches to childhood and parenting	MC OC	5	The discipline focuses on the study of the evolution of concepts of childhood and parenting within social, psychological, and pedagogical contexts. Key components include the acquisition by master's students of various theoretical approaches to understanding childhood (sociological, psychological, etc.), the perception and role of the child in society, and the transformation of parental roles and expectations. During practical sessions, students will analyze the impact of globalization and the digital environment on family dynamics, child-rearing, and development; assess social factors influencing childhood and parenting practices; and develop recommendations for	<ul style="list-style-type: none"> - Lecture and discussion method; - Case analysis; - Interactive method; - Presentation of the material; - Interactive elements; - Lecture and discussion method; - Case analysis; - Interactive method; - Presentation of the material; - Interactive 	LO 6 LO 9 LO 11	Written



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				supporting families and early childhood.	elements;		
	PC 52201/2 Game learning in a preschool organization			<p>Objective: To develop professional knowledge and practical skills among master's students in using play as a leading method for educating, teaching, and developing preschool children.</p> <p>The discipline content includes the psychological and pedagogical foundations of play in early childhood, technologies for organizing play-based learning in accordance with the Standard Curriculum for Preschool Education and Training, and methods for integrating play activities into structured learning (speech development, basics of mathematics, exploring the environment, etc.). In practical sessions, students will analyze and classify games, develop game scenarios integrated into structured activities (speech, cognitive, physical development, etc.), design play situations, model and simulate fragments of organized activities using play-based technologies, and select appropriate play materials.</p>		LO 5 LO 7 LO 8 LO 9	Written
2	PC 53201/1 Methods of teaching	MC OC	5	The discipline is aimed at developing master's students' in-depth knowledge and	Practical classes Project-based	LO 2 LO 3	Written



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	pedagogical disciplines			skills necessary for the effective organization of the educational process in higher education institutions. Within this course, master's students explore modern teaching methods that include both traditional and innovative approaches, such as lectures, seminars, practical classes, project-based learning, case methods, the use of information and communication technologies, and artificial intelligence (AI). Special emphasis is placed on implementing active learning methods, including problem-based, research-based, and distance learning. Master's students acquire skills in applying contemporary teaching methods and technologies, managing the educational process, utilizing ICT and assessment methods, as well as creating an effective learning environment.	learning Interactive methods		
	PC 53201/2 Methodological support of preschool education			The discipline is aimed at developing professional knowledge and skills among master's students in the field of methodological support for preschool education. The discipline includes modern approaches to organizing methodological work in preschool institutions and the methodological support of children's social-	Development of a methodological case for pre-school education; Educational discussion; Technologies of group activity	LO 5 LO 9 LO 10	Written



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				communicative, intellectual-cognitive, physical, and artistic development. During the discipline, students will acquire skills in planning and coordinating methodological activities in preschool organizations; organizing methodological work (seminars, consultations, workshops, etc.); supporting the educational activities of teachers; implementing innovative pedagogical technologies; and monitoring the professional development of educational staff. They will also master modern methods of data collection, analysis, storage, and use in educational and managerial practice.			
3	PC 61201/1 Assessment of the quality of preschool education	MC OC	5	The discipline includes the study of models and quality criteria in early childhood education, methods for evaluating pedagogical performance, and mechanisms for improving the quality of the educational process in preschool educational institutions. As part of the discipline, master's students will become familiar with regulatory legal acts in the field of early childhood education, master tools and methods for diagnosing, analyzing, and monitoring educational quality. They will develop instruments for assessing the quality of	The "SWOT analysis" method is a reflection method	LO 5 LO 8 LO 9 LO 10	Verbally



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				preschool education (such as questionnaires, tests, surveys, etc.) and acquire skills in analyzing data obtained through quality assessment processes.			
	PC 61201/2 Educational marketing in preschool organization			Formation of a systematic understanding of marketing processes in the field of early childhood education among master's students and the development of skills in analyzing, planning, and implementing strategies for promoting and developing educational services in preschool organizations. Within the discipline, students study the fundamentals of educational and social marketing, learn to analyze the needs of parents and the educational market, and master methods for building and promoting the image of preschool institutions. As a result, they develop a marketing strategy and acquire communication skills for engaging with target groups (parents, administrative bodies, the public).	- Projects (development of a marketing plan for a business). - Case analysis. - Presentations. - Protection of the final portfolio.	LO 7 LO 10 LO 11 LO 12	Written
4	PC 63201/1 Digital pedagogy in the preschool education system	MC OC	5	The aim of the course is to develop skills and competencies in the application of digital tools and technologies in preschool education. Upon completing this course, master's students will be able to master	Development of a methodological case for pre-school education; Educational	LO 7 LO 9	Project



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				methods for designing digital educational scenarios for preschool children; developing integrated learning activities (offline + digital); applying digital and technological competencies (Digital & EdTech Skills) and modern EdTech tools (interactive platforms, applications, LMS); creating multimedia content (videos, animations, interactive games, and interactive learning materials); using online platforms, multimedia, and basic AI solutions in preschool education while considering the age-specific and psychophysiological characteristics of children; organizing effective interaction with parents through digital platforms (online consultations, Play Hub); and analyzing preschool children's learning outcomes using digital data.	discussion; Technologies of group activity		
	PC 63201/2 Psychological and pedagogical expertise of the educational process			The aim of the discipline is to develop professional competencies in master's students in the analysis, evaluation, and improvement of the quality of the educational process in preschool organizations. The discipline content includes theoretical and methodological foundations of psycho-pedagogical expertise, methods and technologies of	Business games; Analysis of pedagogical situations; Watching videos followed by discussion; Discussions, brainstorming.	LO 4 LO 9 LO 10	Verbally



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				expert evaluation, criteria for the effectiveness of the subject-spatial developmental environment, and the level of the child's mental development. As a result of the discipline, during practical sessions, master's students will acquire skills in case analysis, diagnostics, evaluation of the quality of the educational process and the subject-spatial developmental environment, assessing children's development levels, identifying problems in teaching and upbringing, and ensuring the psychological safety of preschool children.			
5	PC 64201/1 Sustainable development in preschool education	MC OC	5	The discipline is aimed at developing professional knowledge and competencies in master's students necessary for integrating sustainable development into preschool education. The curriculum covers the mastery of Sustainable Development Goals in education, theoretical foundations of sustainable development, its ecological, social, and economic aspects, as well as ways of implementation within the educational environment of preschool organizations. Students will study the National Educational Strategy for Sustainable Development of Kazakhstan,	The project methodology is the creation of eco-projects (mini-garden, separate collection, energy saving). The problem situations method is the analysis of environmental and social problems through simple cases	LO 5 LO 8 LO 10 LO 12	Written



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				key tasks of education for sustainable development, education for stability, and quality education. Master's students will explore the role of the educator as a promoter of sustainable values in education, methods for developing ecological culture and responsibility in preschool children, and creating a developmental environment. They will acquire skills in pedagogical practices related to sustainable development.			
	PC 64201/2 Development of preschool children's research activities			The discipline is aimed at the formation and development of cognitive interests and research skills in children. It covers the theoretical and practical foundations of research activities in early childhood, features of forming cognitive motivation, creativity, and independence in children, the role of the educator in supporting children's research, and methods of interaction with parents. Master's students will use innovative technologies, methods, and techniques for organizing research activities, develop and implement mini-projects, research tasks, and diagnostic tools to assess the level of research skills formation in preschool children.	The method of experimentation; The method of questions and hypotheses;	LO 4 LO 8 LO 9 LO 10	Written
6	PC 65201/1			Goal: To develop professional skills in	Защита	LO 4	Project



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	Designing the educational process of a preschool organization	MC OC	5	master's students for planning, modeling, and organizing the educational and upbringing process in preschool organizations, taking into account the age characteristics of children, modern approaches, and regulatory requirements. During the discipline, master's students will study the theoretical and methodological foundations of educational design; acquire skills in creating educational programs, plans, and projects; and learn to apply a project-based approach in developing the learning environment and interacting with families. Upon completion, students will have developed skills in reflecting on and analyzing pedagogical activities, monitoring the educational process, analyzing results and adjusting plans, and using psychological and pedagogical diagnostic methods to assess the effectiveness of the educational and upbringing process in preschool organizations.	стратегического плана; Анализ примеров существующих программ; Работа с аналитическим и прогностическим компонентом;	LO 8 LO 10 LO 11	Written
	PC 65201/2 Development of a preschool organization development			Goal: To develop professional skills and knowledge in master's students necessary for designing, developing, and implementing a development program for a preschool organization. The discipline	Development of the layout of the development program UP to; Protection of the	LO 5 LO 7 LO 9 LO 10	



	program			content includes regulatory, legal, organizational, and managerial aspects of development program creation; methodological foundations of strategic planning; methods for analyzing the internal and external environment of a preschool organization (SWOT analysis, monitoring, diagnostics, goal-setting technologies, resource planning, and effectiveness evaluation). Master's students will learn to develop a development program project considering modern challenges, the specific characteristics of the children's contingent, and the resources of the preschool organization. They will also master techniques for analyzing the internal and external environment, and for developing the mission, goals, objectives, and strategic directions for development.	strategic plan; Analysis of examples of existing programs; Working with the analytical and predictive component;		
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RW 5 – Research Work

Module description: The module is aimed at developing the research skills, knowledge and competencies of master's degree students. During teaching practice, research practice, internships and completing the master's thesis, master's degree students gain valuable experience in applying knowledge in teaching, research and practice.



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№	Code and title of the discipline	Cycle / component	ECT S	Description of the discipline	Methods of teaching	Learning outcomes	Assessment methods
1	RW 510/610 Research practice	CC/ UC	5	Research practice is focused on obtaining the results of scientific research, critical analysis, substantiation of the theoretical and practical significance of the research problem, as well as the formulation of final conclusions.	Practical work	LO 1 LO 2 LO 4 LO 10	Report
2	RW 521 Undergraduate research work, including internships and the implementation of a Master's thesis (MRW)	MRW	3	Possession of skills in identifying scientific priorities, as well as the formation of current tasks and research problems. Completion of research (methodological and practical) sections in accordance with the established rules of protection. Justification of the theoretical and practical significance of the research problem. Conducting an analytical review of scientific literature and independent research in accordance with the developed program.	Practical work	LO 1 LO 2 LO 4 LO 10	Report
3	RW 522 Undergraduate research work, including internships and the implementation of a Master's thesis	MRW	6	Independent study of new theoretical and methodological works of domestic and foreign science. Consolidation of practical skills in the application of modern methods of scientific research. Participation in the research work of the department and the specialized research institute.	Practical work	LO 1 LO 2 LO 4 LO 10	Report



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	(MRW)						
4	RW 623 Undergraduate research work, including internships and the implementation of a Master's thesis (MRW)	MRW	5	Conducting an analytical review of scientific literature. Conducting independent research in accordance with the developed program. Mastering modern theoretical and methodological achievements in the field of science. Application of modern methods in individual scientific research.	Practical work	LO 1 LO 2 LO 4 LO 10	Report
5	RW 624 Undergraduate research work, including internships and the implementation of a Master's thesis (MRW)	MRW	10	Submitting the final dissertation draft to the supervisor and then defending the research methods at the university ethics committee at the end of the third semester.	Practical work	LO 1 LO 2 LO 4 LO 10	Report
6	Final certification	FE 610	8	Registration and defense of a master's thesis (RDMT)	Design and defense of a dissertation		Defense
	Total		120				