Name of the Discipline	Preparation of Scientific Research Work and Master's Thesis					
Semester(s)	1, 2, 3, 4					
Responsible teacher	Sultanov Marat Mirzayevich, Doctor of Chemical Sciences (DSc), Professor Rashidova Komila Khamidovna, Doctor of Philosophy (PhD) in Chemical Sciences, Associate Professor Muminova Nargiza Ismatullayevna, Doctor of Philosophy (PhD) in Chemical Sciences, Associate Professor					
Language of teaching/learning	Uzbek, Russian					
Connection to the curriculum	Compulsory					
Forms of teaching/learning	Practical (practice)					
Academic workload			T _	T _	1.	_
(including contact hours and	Semester	1	2	3	4	
self-study)	Total workload	120	180	180	540	
ECTS	34					
Prerequisites						
Discipline objectives / Learning Outcomes	The purpose of the discipline is to prepare a master's student for independent research work, the main result of which is the writing and successful defense of a master's thesis. Learning outcomes - the ability to apply methods of scientific knowledge in independent research activities, generate and implement innovative ideas; - own the methodology of scientific knowledge, be able to analyze and evaluate the content and level of philosophical and methodological problems when solving problems of research and innovation activities; - master the techniques and methods of personal and professional development of a teacher-researcher, building a professional career and pedagogical ideals, norms and principles of pedagogical and scientific ethics, individual abilities and inclinations; - design and carry out complex research, including interdisciplinary research, based on a holistic systemic scientific worldview using knowledge in the field of Biology and methods of its teaching; - have the skills to use modern information technologies to solve research and innovation problems; - carry out research activities in the field of Biology and methods of teaching it using modern research methods and information and communication technologies; - master the techniques and methods of personal and professional development of a teacher-researcher, building a professional career and pedagogical ideals, norms and principles of pedagogical and scientific ethics, individual abilities and inclinations; - adapt the results of modern chemical and pedagogical					

Lessons' contents	1. Selecting a topic for research work, justifying its		
Lessons contents	relevance 2. Approval of a plan for research work, determination of specific volumes and directions of scientific research		
	(drawing up and approval of an individual work plan for a master's student);		
	3. Preparation of an analytical review of the literature on the research topic		
	4.Development of experimental methodology		
	5.Carrying out theoretical and experimental work on the research topic		
	6.Material testing 7.Presentation of theoretical research results at conferences		
	8.Development and justification of author's proposals, principles, approaches, interpretations		
	9.Experimental testing		
	10.Preparation of text and demonstration material		
The exam format	Preparation of the report and its protection		
Teaching/learning and examination requirements	No more than 2 days are allotted for drawing up the fireport, during which undergraduates put their individual prin order, prepare written reports, and prepare presentation Each undergraduate submits the following materials:		
	- Report text;		
	Individual plan and characteristics from the supervisor;Presentations of master's students-interns in electronic		
	form.		
	The credit for research activities (practice) is accepted by the commission in accordance with the approved order, in the		
	presence of all undergraduates and their supervisors. During		
	the certification, the competencies of master's students-		
	interns, which they mastered in the process of carrying out research activities (practice), are assessed.		
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	3. Алемасов В., Мамадалиев Ш. Илмий тадкикот: методология, методика ва ижодиёт. – Т.: Ўзбекистон		
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	Илмий ижод методологияси. – Т.: Янги аср авлоди, 2004. – 190 б.		
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