APPROVED NC ISC "S Seifullin Kazakh Agrotechnical Research University"

Denn of the faculty

Toleubekova Zh.Z. 2023r.

CATALOG OF ELECTIVE DISCIPLINES
For students in the field of study 7M073 Architecture and Construction

Brief description of elective disciplines of the educational program

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M128 - "Land Manage ment"	M128 - "Land Manage ment"	M128 - "Land Manage ment"	EPG
7M07314 - Technologies for geodetic and cadastral works		7,7M07314 - Technologies for geodetic and cadastral works	ЕP
7M07314 - Full-time Technologies (master's degree 2 for geodetic years) semester and cadastral works	7M07314 - Full-time Organizatio Technologies (master's degree 2 nof project for geodetic years) semester scientific and cadastral scientific activities in managemen and cadastra	7M07314 - Full-time Technologies (master's degree 2 for geodetic years) semester and cadastral works	Form of education
Land management	t t	Methodolog MNIZ yoff 5212 scientific research in land management	The name of discipline
UZR5207	ONIZK 5222	MNIZ 5212	Code of subject
BS	BS	BS	Discipli ne cycle
ta	a	ਲ	Discipli ne cycle Component
ω	(h	5.	Number of credits
Master's la degree in la areas (Scientifi c and pedagogic al)	Master's la degree in 1 areas (Scientifi c and pedagogic al)	Master's degree in 1 areas (Scientifi c and pedagogic al)	Level of training
land management	land management	land management	Cafedra
ь	_	_	Cours
2	2	2	Acade mic period
Psychology of management	History and philosophy of science	History and philosophy of science	Acade Pre- mic requisitions
Psychology Master's research work, of including internship and management master's thesis	Master's research work, including internship and master's thesis	Master's research work, including internship and master's thesis	Post-requisitions
Master's research work, Basic principles, provisions and methods including internship and of land resource management. Land Fund of the Republic of Kazakhstan as an object of land resource management. State bodies for land management, their functions. Administrative and legal mechanism of state management of land and resource resources.	Subject and methods of research and tasks of economic research. Research and development in land methodology in land management and cadastre Research methods in economics. Instruments, carry out information and Philosophical and general scientific research methods Dalectical method. Special research methods Mathematical methods Method of formalization. Network models. Sociological methods. In principle of covariation. Methods of economic analysis	Master's research work. Goals, objectives and content of science. including internship and Methodology and laws of science. Science in modern society. The importance of science. Laws of scientific development. Contents of science. Methodology, technique and research process. Modern problems of land management Research methodology. Organization of research. Contents of the analysis. Methods of analysis. Forecasting methods.	Brief content of the discipline
"The ability to integrate legal, technical, economic, environmental knowledge and use it to solve and justify research and professional problems in the rational use of land resources, managing territorial planning projects, and conducting land cadastral work.	The ability to independently carry out research and development in land management using modern equipment, instruments, carry out information and analytical work and develop projects using modern geoinformation technologies and computer-aided design;	The ability to independently carry out research and development in land research and development in land instruments, carry out information and analytical work and develop projects using modern geoinformation technologies and computer-aided design;	Key learning outcomes
Urban arca management	Methodology of scientific research in land management	Organization of project and scientific activities in land management and cadastre	Name of the alternative discipline

M128 "Land Manage ment"	M128 - "Land Manage ment"	M128 - "Land Manage ment"
7M07314 - Full-time Technologies (master's degree 2 for geodetic years) semester and cadastral works	7/M07314 - Full-time Technologies (master's degree 2 for geodetic years') semester and cadastral works	- S
Modern methods of territory organization	Landscape organization of rural areas.Ландш афгнам организами я сельских терригорий	= _
S319	5320	UGR5208
BS	BS	BS
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υ.	ω	ω
Master's I degree in 1 areas (Scientifi c and pedagogic al)	Master's degree in degree in areas (Scientifi c and pedagogic al)	Master's degree in areas (Scientifi c and pedagogic al)
land management	land management	land management
	Р	2
2	Ν	2
Psychology of nanagement	Psychology of management	Psychology of management
Psychology Master's research work, of including internship and management master's thesis	Psychology Master's research work, of including internship and management master's thesis	Psychology Master's research work, of including internship and management master's thesis
Basic provisions of the concept of a modern land management. Economic, social and environmental essence of interfarm land management. Features of the formation of land uses for various purposes. The main directions for improving the water and chemical plant in modern conditions. Fundamentals of the landscape approach to the on-farm organization of territory		Master's research work. Goals and objectives of urban area including internship and management. Legal aspects of territory master's thesis management in the city. The role of the urban real estate market in a market economy. The concept of sustainable spatial development. Management and design
The ability to apply scientific methods and methodology of knowledge, organize and conduct scientific research, use research results when solving problems in the field of rational use and protection of land resources, cadastral activities. The ability to integrate legal, technical, economic, environmental knowledge and use them to solve and justify research and professional tasks in the rational use of land resources, project management, territorial planning, and land cadastral work. PO.5 Ability to carry out project activities based on modern methods of territory organization; use modern technologies when creating land management and land cadastral entographic material.	Study of landscape structure for land management purposes. Landscape ecological balance. Regional features of landscape differentiation, environmental sustainability of agricultural landscapes or results when solving problems in the field of rational use and protection of land resources, cadastral activities. The ability to integrate legal, technical, economic, environmental knowledge and use them to solve and justify research and protection of land resources, project management, territorial planning, and land cadastral work. PO.5 Ability to carry out project activities based on modern methods of territory organization; use modern technologies when cardographic material.	"The ability to integrate legal, technical, economic, environmental knowledge and use it to solve and justify research and professional problems in the rational use of land resources, managing territorial planning projects, and conducting land cadastral work.
Landscape organization of rural areas	Modern methods of territory organization	Land management

"Land Manage ment"	"Land Manage ment"
Technologies (master's degree 2 for geodetic years) semester and cadastral works	Technologies (master's degree 2 for geodelic years) semester and cadastral works
Geodesy	Territoral information systems for land management work
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degree in areas (Scientifi c and pedagogri al)	Master's degree areas areas (Scientifi c and pedagogi al)
degree in management areas (Scientifi Cand pedagogic and pedagogic al)	Master's land degree in management degree in management areas (Scientifi c and pedagogic al)
υ	
паучные основы геодезии и картографии и и	Modern methods of territory organization
паўчные маже з вежцен моік, основы including internship and геодезии и master's thesis картографи	Master's research work, including internship and master's thesis
	Modern Master's research work. General concepts about geoinformatics methods of including internship and and GIS. GIS classification. Organization of GIS databases. Methods for preparing information in GIS. Sources of initial data and their types. GIS data models. Spatial data infrastructures. Principles of creating computer land management plans and maps. Land information systems
Creau, quiss-geout, general earin ellipsoid, reference ellipsoid, coordinate coordinates systems. Geometry of the earth's ellipsoid and rectangular Gaussian coordinates. Geodetic networks, their purpose and methods of construction, Triangulation, trilateration, polygonometry. Satellite geodetic networks. High-precision geometric professional development and conduct research and development and conduct professional activities in cadastra work. The ability to independently carry out research and development and conduct professional activities in cadastra and land technologies; search, process, store and present information based on information, computer and network technologies	General concepts about geoinformatics and GIS CIS classification. Organization of GIS databases. Methods for preparing information in GIS Sources of initial data and their types. GIS data models. Spatial data infrastructures. Principles of comomic, environmental knowledge and use retaing computer land management professional problems in the rational use of land resources, managing territorial planning projects, and conducting land cadastral work. Ability to carry out project activities based on modern methods of territory organization, use modern technologies when creating land management and land cadastral actrographic material. The ability to independently carry out research and development and conduct professional activities in cadastre and land management using modern equipment and present information based on information, computer and network technologies.
Space gedlesy	Land information systems for olving applied problems

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7M07314 - Full-time Technologies (master's degree 2 for geodetic years) semester and cadastral works	7M07314 - Full-time Technologies (master's degree 2 for geodetic years') semester and cadastral works
Space monitoring of lands	Land information systems for solving applied problems
6209 BS	6208 BS
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Master's degree in areas (Scientifi c and pedagogic al)	Master's degree in areas (Scientifi c and pedagogic al)
land management	Master's land degree in management areas (Scientifi c and pedagogic al)
2	N
	Modern methods of territory organization
scientific Master's research work, foundations including intenship and of geodesy master's thesis and cartography	Master's research work, Information f including internship and management master's thesis of ZIS. The operation of determining geographic materials
Значение, цель и задачи мониторинга земель. Агропочвенный мониторинг, Содержание наблюдений за наменением агропро-изводственных свойств почв и структуры почвенного покрова. Особенности мониторинга земель населенных гриктов. Мони- торинг техногенно загразвенных земель. Международные про-граммы по экологическому мониторингу	Master's research work. Information support for land including internship and management. Creation and main tasks of master's thesis of ZIS. The concept of creation and operation of AIS GKZ. Principles for determining cadastral errors based on geocorphic information systems materials
a "The ability to integrate legal, technical, economic, environmental knowledge and use it to solve and justify research and professional problems in the rational use of land resources, managing territorial planning projects, and conducting land cadastral work. Ability to carry out project activities based on modern methods of territory organization; use modern technologies when creating land management and land cadastral cartographic material. The ability to independently carry out research and development and conduct professional activities in cadastre and land management using modern equipment and technologies; search, process, store and present information based on information, computer and network technologies.	технические, экономические, экономические, экономические знания и использовать их экономические знания и использовать их эк задач при решения и обоснования и исследовательских и профессиональных рамельных ресурсов, управлении земельных ресурсов, управлении земельно- кадастровых работ. Способность осуществиять проектную деятельность на основе современных методов организации территории; иппользовать современные технологии при создании земельного картографического материала. Способность самостоятельно выполнять научно-исследовательские разработки и вести профессиональную деятельность в кластре и землеустройстве с использованием современной техники и технологий; осуществлять поиск, обработку, хранение и представление информации на основе информационных, компьютерных и сетевых технологий.
Modern land monitoring technologies	Territorial information systems for land management work

Manage for geodetic years) semester ment* and cadastral works	"Land Techi
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ears) semester	Technologies (master's degree 2 monitoring
technologies	monitoring
	6210
areas (Scientifi c and pedagogic al)	
areas (Scientifi c and pedagogic al)	n managamar
	+
of geodesy and cartography	scientific
of geodesy master's thesis and cartography	scientific Iviasier's research work,
monitoring systems. Land monitoring indicator system. Modern methods of observation and information technologies. Territorial and sectoral monitoring of lands, monitoring of natural resources. Application of aerial and space survey materials in land cadastre, land management, ecology	
"The ability to integrate legal, technical, economic, environmental knowledge and use it to solve and justify research and professional problems in the rational use of land resources, managing territorial planning projects, and conducting land cadastral work. Ability to carry out project activities based on modern methods of territory organization; use modern technologies when creating land management and land cadastral cartographic material. The ability to independently carry out research and development and conduct professional activities in cadastre and land management using modern equipment and technologies, search, process, store and present information based on information, computer and network technologies.	
ianus	Space monitoring of