



CATALOG OF ELECTIVE DISCIPLINES

For students in the field of study 7M073 Architecture and Construction

Brief description of elective disciplines of the educational program

| EPG | EP | Form of education | The name of discipline | Code of subject | Discipline cycle | Component | Number of credits | Level of training | Cafedra | Courses | Academic period | Pre-requisites | Post-requisites | Brief content of the discipline | Key learning outcomes | Name of the alternative discipline |
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| M128 - "Land Management" | 7M07304 - "Land management" | Full-time (master's degree 2 years) semester | Methodology of scientific research in land management | MNZ 5212 | БД | Е | 5 | Master's degree in areas (Scientific and pedagogic al) | land management | 1 2 | History and philosophy of science | Master's research work, including internship and master's thesis | Subject and methods of research and tasks of economic research. Research methodology in economics. Research methods in economics. Philosophical and general scientific research methods. Dialectical method. Special research methods. Mathematical methods. Method of formalization. Network models. Sociological methods. nal analysis. The principle of covariation. Methods of economic analysis | 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; Integrate legal, economic, environmental knowledge and use it to solve research and design problems when planning and managing land resources, when organizing the territory based on land legislation and the fundamentals of the land market in the Republic of Kazakhstan. Carry out organizational and management activities for planning, organization and control in land management, carrying out cadastral and land management works | Organization of design and scientific activities in land management and cadastre | |

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| M128 - "Land Management" | 7M07304 - "Land management" | Full-time (master's degree 2 years) semester | History and patterns of development of land relations | IZRZO 6225 | БД | E | 5 | Master's degree in areas (Scientific and pedagogic al) | land management | 2 | 1 | History and philosophy of science | Master's research work, including internship and master's thesis | The place and role of land relations in the system of social production. Features of the development of land relations on the territory of Kazakhstan. Periods of development of land relations. The nature of the development of land relations in different historical eras. Problems of development and fundamentals of regulation of land relations in Kazakhstan. | Apply scientific methods and methodology of knowledge in research activities when solving problems in the field of planning the use of land resources and organizing the territory using modern scientific achievements and advanced information technologies | Development of land management science |
| M128 - "Land Management" | 7M07304 - "Land management" | Full-time (master's degree 2 years) semester | Development of land management science | RZN 6225 | БД | E | 5 | Master's degree in areas (Scientific and pedagogic al) | land management | 2 | 1 | History and philosophy of science | Master's research work, including internship and master's thesis | Current state and development of land management science. Basic theoretical principles of the system of land management and real estate. Scientific support of land management work, development and justification of land management schemes and projects, organization of land use and protection. | Apply scientific methods and methodology of knowledge in research activities when solving problems in the field of planning the use of land resources and organizing the territory using modern scientific achievements and advanced information technologies | History and patterns of development of land relations |
| M128 - "Land Management" | 7M07304 - "Land management" | Full-time (master's degree 2 years) semester | Geographic information systems in land management and cadastre | GSSZK 5213 | БД | E | 5 | Master's degree in areas (Scientific and pedagogic al) | land management | 1 | 2 | Geographic information systems | Master's research work, including internship and master's thesis | GIS-technology and methods of creating data geospatial networks, construction of electronic digital maps, key basics for development of projects geoinformation. Application of GIS-technology in projects geoinformation, evaluation of effectiveness at the stage of creation of electronic maps so specializations: other specialties, international experience application in GIS-geoinformation work technologies. | "Carry out project activities based on modern methods of organizing the territory, use modern technologies when creating cartographic material. 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." | Territorial information management work |
| M128 - "Land Management" | 7M07304 - "Land management" | Full-time (master's degree 2 years) semester | Territorial information systems for land management work | TISDPZR 5224 | БД | E | 5 | Master's degree in areas (Scientific and pedagogic al) | land management | 1 | 2 | Geographic information systems | Master's research work, including internship and master's thesis | Organization, effectiveness and functional capabilities of geoinformation systems and use of them in the process of creating and using modern cartographic products. Formulation of modern information technologies in geoinformation and cadastre, their structure, content, functional capabilities and requirements, providing them to information technologies. | "Carry out project activities based on modern methods of organizing the territory, use modern technologies when creating cartographic material. 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." | Geographic information systems in land management and cadastre |
| M128 - "Land Management" | 7M07304 - "Land management" | Full-time (master's degree 2 years) semester | Legal support for modern land management and cadastre | POSZK 334ПД | БД | E | 5 | Master's degree in areas (Scientific and pedagogic al) | land management | 1 | 1 | Land law | Master's research work, including internship and master's thesis | Basic legislative acts in the field of land management, land management and cadastre, their content. Modern justifications and methods of land management; regulatory framework for regulating land relations and land resource management. Industrial land management process. | Integrate legal, economic, environmental knowledge and use it to solve research and design problems when planning and managing land resources, when organizing the territory based on land legislation and the fundamentals of the land market in the Republic of Kazakhstan. Carry out organizational and management activities for planning, organization and control in land management, carrying out cadastral and land management works | Legal basis of the land management process |

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| M128 - "Land Management" | 7M07304 - "Land management" | Full-time (master's degree 2 years) semester | Legal basis of the land management process | POZP 5324/III | E | 5 | Master's degree in land management areas (Scientific and pedagogical) | land management | 1 | 1 | land law | Master's research work, including internship and master's thesis | Legal support for land management and cadastral actions. Principles of land management and cadastral work. Application of the acquired knowledge in land management and cadastral activities to regulate relations arising in the process of this activity. | Integrate legal, economic, environmental knowledge and use it to solve research and design problems when planning and managing land resources, when organizing the territory based on land legislation and the fundamentals of the land market in the Republic of Kazakhstan. Carry out organizational and management activities for planning, organization and control in land management, carrying out cadastral and land management works | Legal support for modern land management and cadastre |
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