



CATALOG OF ELECTIVE DISCIPLINES

For students in the field of study 7M073 Architecture and Construction
7M07303 - Cadastre

Brief description of elective disciplines of the educational program

| GOP | OP | Form of study | Name of discipline | Discipline code | Cycle of discipline | Component of choice | Amount of credits | Level of training | Department | Well | Academic period | Prerequisites | Post-requisites | Summary of the discipline | Learning outcomes | Name of alternative discipline |
|------------------------------|--------------------|--|--|-----------------|---------------------|---------------------|-------------------|---|------------|------|-----------------|--|--|--|--|--|
| M128 - "Land Management ent" | 7M07303 - Cadastre | Full-time (master's degree 2 years) semester | Territorial information systems for land management work | TTSDPZR 6214 | DB | Component of choice | 5 | Master's degree in areas (Scientific and pedagogical) | Cadastre | 2 | 1 | Development of the land market in the Republic of Kazakhstan. Modern problems of land cadastre | Research work of a master's student, including the completion of a master's thesis | Organization and interaction of the functionality of territorial information systems and their use in the creation and use of cartographic works. Formation of ideas about modern information technologies in land management and cadastre, their structure, composition, functionality and requirements for information technologies. | Implement new methods of maintaining the land cadastre, be able to work with modern software products for cadastre maintenance and conduct monitoring studies based on remote sensing data, know the methods and procedure for performing cadastral work | Technology of cadastral activities |
| M128 - "Land Management ent" | 7M07303 - Cadastre | Full-time (master's degree 2 years) semester | Technology of cadastral activities | TKD 6214 | DB | Component of choice | 5 | Master's degree in areas (Scientific and pedagogical) | Cadastre | 2 | 1 | Development of the land market in the Republic of Kazakhstan. Modern problems of land cadastre | Research work of a master's student, including the completion of a master's thesis | Regulatory support in the field of cadastral activities. Forms of carrying out cadastral activities. Technology for performing cadastral works. Economics of cadastral activities. Organization and maintenance of complex cadastral works. Efficiency of conducting cadastral works. | Implement new methods of maintaining the land cadastre, be able to work with modern software products for cadastre maintenance and conduct monitoring studies based on remote sensing data, know the methods and procedure for performing cadastral work | Territorial information systems for land management work |
| M130 - "Land management ent" | 7M07303 - Cadastre | Full-time (master's degree 2 years) semester | Methodology and methodology of scientific research | MMNI 5213 | DB | Component of choice | 5 | Master's degree in areas (Scientific and pedagogical) | Cadastre | 1 | 1 | Bachelor's course - Fundamentals of scientific research | Modern problems of land cadastre | Goals and objectives of urban area management. Legal aspects of territory 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 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 carry out organizational and managerial 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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| M130 - Land management | 107303 - Cadastre | Full-time (master's degree 2 years) semester | Economics and ecology of land use | EEZ 5212 | DB | Component of choice | 5 | Master's degree in areas (Scientific and pedagogical) | Cadastre | 1 | 2 | Development of the land market in the Republic of Kazakhstan. Modern problems of land cadastre | Problems and ways to improve the use of land resources. Improving land relations | Study of landscape structure for land management purposes. Landscape-ecological balance. Regional features of landscape differentiation, environmental sustainability of agricultural landscapes, territorial planning of agro-landscapes on a landscape-ecological basis | 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 it to solve and justify research and professional problems 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 cartographic material | Economic mechanism of land management |
| M128 - Land Management | 7M07303 - Cadastre | Full-time (master's degree 2 years) semester | Economic mechanism of land management | EMUZR 5212 | DB | Component of choice | 5 | Master's degree in areas (Scientific and pedagogical) | Cadastre | 1 | 2 | Development of the land market in the Republic of Kazakhstan. Modern problems of land cadastre | Problems and ways to improve the use of land resources. Improving land relations | Basic provisions of the concept of modern land management. Economic, social and environmental essence of inter-farm 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 | 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 it to solve and justify research and professional problems 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 cartographic material | Economics and ecology of land use |

Head of the department "Cadastre"

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