

**MINISTRY OF AGRICULTURE OF THE REPUBLIC OF KAZAKHSTAN
"NJSC "S. SEIFULLIN KAZAKH AGROTECHNICAL UNIVERSITY"**

Approve
NJSC "Saken Seifullin Kazakh
Deputy Chairman of the Management
Board Academic Activity-Rector
_____ A.M Abdyrov.
« _____ » _____ 2021.

CATALOG OF ELECTIVE COURSES

For students in groups of educational programs

Geodezy and mapping

Nur-Sultan, 2021

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Brief description of elective disciplines of the educational program

Entrepreneurship

1	Name of course	Geodetic Instrumentation
2	Code of course	GI 2221
3	Cycle of course	BDKB
4	Amount of credits	5
5	Level of preparation	Undergraduate studies
6	Department	Land management and geodesy
7	Year	2
8	Prerequisites	Mathematics, physics, geodesy
9	Postrequisites	Modern geodetic instruments, aerospace survey methods
10	Course summary	Optical parts and systems in geodetic instruments. Basic information about the testing of geodetic instruments. Modern geodetic instruments: electronic tacheometers, digital and code levels, scanning devices.
11	Learning outcomes	Knowledge of the operation of tools and techniques for conducting geodetic work, as well as the ability to field and office geodetic work using geodetic instruments;

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Brief description of elective disciplines of the educational program

Rationing and remuneration

1	Name of course	Geomorphology with the basics of hydrology
2	Code of course	GBG 2305
3	Cycle of course	BDKB
4	Amount of credits	3
5	Level of preparation	Undergraduate studies
6	Department	land management and geodesy
7	Year	2
8	Prerequisites	Physics, geography
9	Postrequisites	Geodesy, cartography
10	Course summary	Main trends in modern geomorphology. The concept of the genesis of the relief. Denudation and accumulative landforms. Relief and correlative deposits. Structural and geomorphological elements of the continents. Mainland platforms. Tectonic regime and structure of continental platforms Endogenous processes and relief. Exogenous processes and relief
11	Learning outcomes	the ability to assimilate key concepts in science, the main stages of development and paradigm shift in the evolution of science; on the subject, ideological and methodological specifics of the natural sciences of geomorphology and hydrology