MODULAR EDUCATIONAL PROGRAM FOR SPECIALTY 5B071100 - "Geodesy and cartography"

Applied geodesy

Purpose: to provide deep theoretical knowledge and practical skills in geodesy, cartography, aerospace imaging techniques, digital map and automation of cartographic products, theory mathematical processing of geodetic measurements;

Aerial photogeodesy

Tasks: the formation of the main professional competencies in future specialists in the field of geodesy; training a specialist of a new formation, possessing broad fundamental knowledge, initiative, adaptive to the changing demands of the labor market and technologies that can work in the team.

Tasks: preparation of a specialist for a creative active professional activities, obtaining theoretical knowledge for quality implementation practical tasks and problems, a clear orientation to the future, which is manifested in opportunities to build their education, taking into account the success in personal and A professional activity that meets the requirements of employers.

The modular educational program contains the following blocks: Socio-political, Basic, Geodesy, Professional languages, Cartography, Topography, Applied geodesy; Photogrammetry; Scientific direction.

According to academic mobility, students can leave as in the domestic universities (Kazakh National Agrarian University, Kazakh NationalTechnical University named after Satpaev, East Kazakhstan State Technical University. D. Serikbayev, etc.), as well as the leading universities of Russia and Europe (Moskava, Novosibirsk, Warsaw - Poland, etc.)

The graduate of the educational program on the specialty 5B071100 - "Geodesy and cartography" will have the following professional competencies:

Independently solve professional issues,related to the performance of works corresponding to its qualification, in the ways of implementing the basic technological processes topographic and geodetic, aerial and photogrammetric and cartographic works.

Analyze and make decisions when planning the volume of field works, creating conditions for studying materials on the territory.

In modern technologies for obtaining geodetic information for mapping the country's territory and updating the existing cartographic fund, including geo-information and aerospace technologies.

Implementation of the basic requirements of the guiding and regulatory and technical documents for the creation of geodetic networks necessary for the creation andupdating of topographic maps; application of the methodology of field topographic and geodetic work.

Bases of professional practice: RKGP "Kazgeodesy", JSC NC "Kazakhstan Garysh Sapary", "RGP SPC ZEM", LLP "Nadir", LLP "Kazdorproekt", LLP RGO "GeoTerr", LLP "Ali and K-Astana", LLP " HIE Kazakhstan ».

Graduates of the specialty 5B071100 - "Geodesy and cartography" work in all sectors of the economy, including the military-industrial complex, Civil and industrial construction, in state organizations in the field of land management, enterprises and institutions in the field of Committee for Land Management, RKCP "Kazgeodesy", JSC NC "Kazakhstan Garysh Sapary", "RGP SPC ZEM", LLP "Nadir", LLP "Kazdorproekt", LLP RSE "GeoTerr", LLP "Ali and K-Astana", LLP "HIE Kazakhstan", etc. Also, graduates can continue their studies in the magistracy in the specialty 6M071100- "Geodesy and cartography".