

Matrix of learning objectives and outcomes - 6B07202 - Geology and exploration of mineral deposits (undergraduate)

Learning Outcomes	Modules
O1. Possess the ability to communicate in oral and written forms in the state, Russian and foreign languages to solve problems of interpersonal and intercultural interaction	M1 "Module of multilingual training" M2 "Module of social disciplines" M6 "Practice-oriented module" M7 "Module of final certification"
O2. Be able to analyze the patterns of development of society, use humanitarian knowledge and critically use the methods of modern science in practice	M2 "Module of social disciplines" M4 "Module of basic geological preparation" M6 "Practice-oriented module"
O3. Possess skills in the use of physics, mathematics, chemistry, information technology, basic calculation methods, methods of solving problems and means of obtaining, storing, processing information, use special software products for modeling deposits and processes	M3 "Module of physical and mathematical training, computer science and chemistry" M4 "Module of basic geological preparation" M6 "Practice-oriented module"
O4. Classify, apply methods for determining and analyzing the structure of crystals, minerals, rocks, identify the genesis, restore the thermodynamic conditions for the formation of rocks and systems, read geological maps, compare patterns of spatial distribution of regional and local structural elements of the earth's crust.	M3 "Module of physical and mathematical training, computer science and chemistry" M4 "Module of basic geological preparation" M5 "Module of profile geological preparation of preparation" M6 "Practice-oriented module"
O5. Own the technology of geological exploration, know the requirements for the quality of geological materials, be able to draw up geological documentation, select and justify methods for prospecting and exploration of mineral deposits, identify criteria and search features based on data analysis	M4 "Module of basic geological preparation" M5 "Module of profile geological preparation of preparation" M6 "Practice-oriented module" M7 "Module of final certification"
O6. Know the legislation on subsoil and subsoil use of the Republic of Kazakhstan, international standards, determine the prospects for the development of the mineral resource base of the region, develop a geological and economic project for calculating reserves and conducting geological exploration.	M4 "Module of basic geological preparation" M5 "Module of profile geological preparation of preparation" M6 "Practice-oriented module" M7 "Module of final certification"
O7. Be proficient in the state and foreign languages in order to fully obtain information, express knowledge in a correct, logically connected oral and written form; have the skills of public speech, argumentation, discussion and controversy; practical analysis of various kinds of reasoning, own the elements of leadership.	M1 "Module of multilingual training" M2 "Module of social disciplines" M6 "Practice-oriented module" M7 "Module of final certification"