Geology and development of mineral deposits

Study plans for the bachelor's program

Language of instruction – Russian

Career prospects – hydrocarbon exploration, production and maintenance / research

Campus – Kazan

Entrance exams and admission thresholds in 2023 (out of 100 points)

Mathematics – 39*

Physics – 39*

Chemistry – 39*

Informatics – 44*

Russian as a foreign language – 40

**only one of the above exams should be chosen for admission*

Year 1	**Year 2**
Chemistry Introduction to the specialization Basics of scientific research Paleontology and stratigraphy Foreign language Fundamentals of Russia's statehood History of Russia Mathematics Physics Physical education Basics of public safety and disaster relief Russian language General geology Geodesy Crystallography IT IT in geology Elective courses Internship	Foreign language Law and anti-corruption education Mathematical methods in geology Probability theory and statistics in geology Geology of minerals Lithology Paleontology and stratigraphy Structural geology General hydrogeology Physics Mathematics Geology of fuels Geophysics Petrology Mineralogy Historical mineralogy Introduction to seismic survey and field geology Elective courses Basics of drilling Geology and geochemistry of oil and gas
Year 3	**Year 4**
General geochemistry Tectonics Elective courses	Geology of Russia Environmental geology

Geographical information systems	Economics
Mathematical methods in geology	Philosophy
Annual thesis	Basics of geological modelling
Methods of studies of geological materials	Facies studies
Petrophysics	Organizing and implementation of geological exploration
Geophysical well logging	Techniques of geological exploration
Methods of hydrogeological research	GIS in oil-bearing capacity forecasting
Digital modelling of geological filtration processes	Digital technology
Digital technology	Computer treatment of data in oil geology
Computer treatment of data in geology	Basics of computer modelling of oil fields
Elective courses	Statistical treatment of data
Operation of oil and gas wells	Computer modelling in geology
Methods of studies of reservoirs and fluid supports	Distance techniques in geological and geophysical surveys
Basics of geophysical well logging	Elective courses
Oilfield geology	Hydrogeology of oil and gas reservoirs
Theoretical basics of oil and gas field prospecting and exploration methods	Lithology of oil-bearing and gas-bearing strata
Legal basis and economics of geological exploration works	Rational production of minerals and environmental protection
Methods of local oil-bearing capacity forecasting	Physics of oil reservoirs
Geological interpretation of geophysical data	Enhanced oil recovery
Geological fundamentals of oil and gas field development	Reserve calculation of oil and gas
Oil and gas field equipment	Oil and gas basins of the Commonwealth of Independent States
Seismic surveys	Hydrogeodynamics
Innovation technology	Pre-graduation internship
Basics of engineering geology	Research internship
Methods of stratigraphic analysis	Graduation thesis
Internship	