

Geophysics

Study plans for the bachelor's program

Language of instruction – Russian

Career prospects – mineral exploration and production / research / environmental safety

Campus – Kazan

Year 1	Year 2
<p>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</p>	<p>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 Elective courses Geophysics Petrology Mineralogy Historical geology Basics of exploration geophysics Basics of seismic surveys and field geophysics Basics of drilling Internship</p>
Year 3	Year 4
<p>General geochemistry Tectonics Geographical information systems Mathematical methods in geology Annual thesis Methods of studies of geological materials Petrophysics Seismic surveys Earth physics Electric surveys Field theory Nuclear geophysics Basics of engineering geology</p>	<p>Geology of Russia Environmental geology Economics Philosophy Basics of geological modelling Maintenance of oil and gas deposit development Combination of geophysical methods Techniques of geological exploration Lithology of oil-bearing and gas-bearing strata Methods of search and exploration of mineral deposits Hydrogeodynamics Organizing and implementation of geological exploration</p>

<p>Theoretical fundamentals of the methods of search and exploration of oil and gas fields</p> <p>Introduction to electrodynamics and theory of potential fields</p> <p>Methods of search and exploration of mineral deposits</p> <p>Elective courses</p> <p>Mathematical methods of the digital treatment of seismic information</p> <p>Basics of computer modelling of oil and gas fields</p> <p>Gravity surveys</p> <p>Magnetic surveys</p> <p>Geophysical well logging</p>	<p>Digital technology</p> <p>GIS in oil-bearing capacity forecasting</p> <p>Theoretical fundamentals of geophysical data processing</p> <p>Methods of automated data processing of geophysical well logging</p> <p>Methods of numerical modelling and interpretation of geophysical data</p> <p>Statistical treatment of data</p> <p>Nuclear geophysics</p> <p>Engineering geophysics</p> <p>Basics of interpretation of data in geophysical well logging</p> <p>Advanced studies of seismic surveys</p> <p>Pre-graduation internship</p> <p>Graduation thesis</p>
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