Digital technology and modelling methods in oil and gas geology

Study plans for the master's program

Language of instruction – Russian

Career prospects – geological survey, exploration and production

Campus – Kazan

Year 1	Year 2
Modern problems of economics, organization and management in geological exploration and subsoil use	Design and project work
Academic communication	Analysis of sedimentation basins
Modelling of oil and gas fields	Machine learning in geology
Field geology	Field well logging
Project and design work	Oil and gas geomechanics
Geological statistics	3D geological modelling
Data processing	Basics of interpretation of remote Earth sensing data
Petrological properties of rocks	Server technology of geographic information systems
Basics of computer programming	Hydrodynamic modelling
Interpretation of seismic data	Enhanced oil recovery
Petrological basics of interpretation of geophysical well logging data	Interpretation of GIS and seismic surveys
Geographic information technology	Petroelastic modelling
Databases and database management	Pre-graduation internship
Hydrodynamic modelling	Graduation thesis
Fluid flows in a porous media	
Design and project work in the development of oil and gas fields	
Sedimentology and lithostratigraphy	
Contemporary methods of interpretation of geophysical well logging data	
Internship	