# Petroleum engineering

Study plans for the master's program

Language of instruction – English

Career prospects – oil and gas industry

Campus – Kazan

| **Year 1** | **Year 2** |
|---|---|
| Modern problems of economics, organization and management in geological exploration and subsoil use<br>Academic communication<br>Modelling of oil and gas fields<br>Petroleum engineering<br>Physical chemistry of hydrocarbons<br>Hydrodynamic modelling<br>Hydrodynamic well logging<br>Reservoir thermodynamics<br>Geophysical studies in the oil and gas industry<br>Basin modelling<br>Geological modelling<br>Interpretation of geological well logging<br>Mathematical descriptions of fluid movement<br>Regional geology and analysis of sedimentation basins<br>Internship | Maintenance of the development of oil and gas fields<br>Enhanced oil recovery<br>Development of oil and gas fields<br>Oil and gas geology<br>Fluid flows in a porous medium<br>Geomechanical modelling<br>Hydrodynamic well logging<br>Wave and impulse methods of formation studies and well logging<br>Petrophysical properties of rocks<br>Petrophysical fundamentals of interpretation of geophysical well logging<br>Economics of the petroleum industry<br>Organizing and management in oil and gas projects<br>Mathematical methods in geology<br>Geological statistics<br>Formation geomechanics<br>Pre-graduation internship<br>Graduation thesis |