09.03.02
INFORMATION TECHNOLOGIES IN EARTH AND ENVIRONMENTAL SCIENCES

DURATION:
4 YEARS

MODE OF STUDY:
FULL-TIME

LANGUAGE OF INSTRUCTION:
ENGLISH

AREAS OF STUDY:
EARTH SCIENCES, INFORMATION TECHNOLOGIES, ENGINEERING STUDIES

ENTRANCE EXAMINATION:
RUSSIAN, MATHEMATICS, PHYSICS/COMPUTER SCIENCE

SIBERIAN SCHOOL OF GEOSCIENCES
+7 (3952) 405-488,
+7 950 00-447-57 (WhatsApp, Telegram)

3, Akademik Kurchatov Street, Irkutsk, Russia, 664074

abiturient@geo.istu.edu
www.eng.istu.edu

ABOUT PROGRAM

The program is based on more than 25 years of INRTU experience in training specialists who are equally well versed in modern digital reality and natural processes and phenomena.

CURRICULUM:

- General Geology
- Mineral Deposits
- Object-oriented programming
- Geostatistics
- Geoecology
- Hydrogeology and Engineering Geology
- Information system design
- Petroleum Geology
- Comprehensive interpretation of geological, geophysical and geochemical data

IRKUTSK POLYTECH
www.istu.edu

INFORMATION TECHNOLOGIES IN EARTH AND ENVIRONMENTAL SCIENCES

BACHELOR'S PROGRAM
SIBERIAN SCHOOL OF GEOSCIENCES
www.eng.istu.edu

PROGRAM DIRECTOR

Alexander Parshin

PhD in Geology and Mineralogy, professor

Scientific Director of the Siberian School of Geosciences

Here, you will not only learn theory well, but how to work for real.

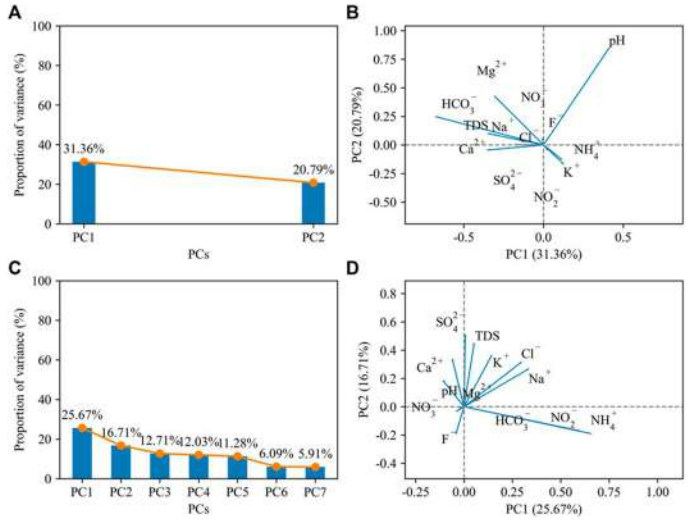
PROGRAM BENEFITS:

From the first year, students will be engaged in
- relevant research;
- development of new technologies, IT-products, and robotic systems;
- part-time job during academic year;
- commercial projects on a paid basis in the summer.

The acquired knowledge allows graduates to work in a variety of fields, including
- geological exploration and mining;
- environmental protection;
- development or administration of new software or hardware systems, networks, spatial data infrastructure.

Graduates will be able to work effectively with data and offer solutions in the most financially secure sectors of the economy related to natural resources, comparing favorably with the graduates who have only completed training in IT.

INRTU guarantees that students of this program will not only receive a good IT and natural science education, but also a unique life experience. They will be able to see the most interesting places on Earth, take part in the best scientific conferences in Russia and the world, and offer their solutions to the most reputable experts. This program is a small life full of adventures.



SKILLS

- Basic knowledge in geosciences, sufficient for independent practical activities
- Practical skills in development and application of unmanned air and water systems in geosciences
- Programming in high-level languages
- Theory and practice in environmental research and ecological monitoring
- Basics of designing electronic equipment and robotic systems
- Universal and mining GIS (QGIS, ArcGIS, MapInfo, Micromine)
- Theory and practice of geological prospecting
- Mathematical and geostatistical data analysis
- AI fundamentals
- 3D modeling of the geological environment