

## 1ST SEMESTER

- | Introduction to Calculus
- | Geometry
- | General Physics I
- | Applied Physical Education (Optional Sports)
- | Russian as a Foreign Language
- | Fundamentals of Engineering

## 2ND SEMESTER

- | Analytic Geometry
- | Single Variable Calculus
- | General Physics II
- | Foundation of programming
- | Applied Physical Education (Optional Sports)
- | Russian as a Foreign Language
- | Fundamentals of Engineering
- | General Physics: Laboratory Practicum

## 3RD SEMESTER

- | Multivariable Calculus
- | Linear Algebra
- | General Physics III
- | Foundation of programming
- | Fundamentals of Engineering
- | Applied Physical Education (Optional Sports)
- | Russian as a Foreign Language
- | General Physics: Laboratory Practicum

## 4TH SEMESTER

- | Fourier Analysis
- | General Physics IV
- | Introduction to Theoretical Mechanics
- | Planetology
- | General Geoinformatics
- | Fundamentals of Engineering
- | Planetology
- | Applied Physical Education (Optional Sports)
- | Russian as a Foreign Language
- | Ordinary Differential Equations
- | General Physics: Laboratory Practicum



## 5TH SEMESTER

- Functions of One Complex Variable
- Probability Theory
- General Physics V
- Theoretical Mechanics
- Fundamentals of Engineering Analysis
- Physics of the Earth
- Physical oceanography
- Atmospheric physics
- Physics of the ionosphere
- Machine Learning in Geosciences
- Methods and instruments of oceanographic measurements, processing and visualization of oceanographic data
- Ordinary Differential Equations
- Applied Physical Education (Optional Sports)
- Russian as a Foreign Language
- General Physics: Laboratory Practicum

## 6TH SEMESTER

- Discrete Mathematics
- General Physics VI
- Experimental Workshop in Geophysics
- Geophysical data processing methods
- Computer modeling in geophysics
- Physics of the Earth
- Geophysical Hydrodynamics
- Partial Differential Equations
- Physical oceanography
- Atmospheric physics
- Physics of the ionosphere
- Machine Learning in Geosciences
- Laboratory modeling in geophysical fluid dynamics
- Applied Physical Education (Optional Sports)
- Russian as a Foreign Language
- General Physics: Laboratory Practicum
- Research practice

**7TH SEMESTER**

- Philosophy
- Partial Differential Equations
- Russian as a Foreign Language
- Space oceanography
- Laboratory modeling in geophysical fluid dynamics
- Geomechanics
- Fundamentals of Seismology
- Dynamics of fluids in porous rocks
- Geophysical data processing methods
- Climate physics
- Computer modeling in geophysics
- Geophysical Hydrodynamics
- Ocean optics
- Personal Research Project

**8TH SEMESTER**

- Life safety
- Climate physics
- Ocean optics
- Russian as a Foreign Language
- Personal Research Project