

05.03.06. ECOLOGY AND NATURE MANAGEMENT

Ecology professionals are in demand today more than ever. The interaction of industry and the environment is one of the most important factors in rational nature management, ensuring satisfaction in material goods while maintaining the natural balance. It is the ecologist who studies and analyzes the degree of criticality of situations related to the intervention of production in the natural environment. His main goal is to identify hazardous factors in the activities of industrial companies, to prevent violations of the norms established by law. Continuous environmental monitoring and maximum reduction of the burden on the environment is the task of all modern companies in the oil and gas industry. This ensures successful employment for competent and goal-oriented young specialists.

Where will they teach?

"Ecology and Nature Management" is one of the areas of training of the USTU Faculty of Technology, implemented by the department chemistry, chemical technology, ecology and technosphere safety.

Duration of study : 4 years.

Number of seats:

25 budget places for full-time education,

5 places under the agreement for the provision of paid educational services in full-time education .

What will they teach?

To enroll in the Ecology and Nature Management program, applicants must pass the Unified State Exam in Geography and Russian language, as well as, optionally, biology, specialized mathematics, chemistry, computer science, or physics.

Future graduates will gain knowledge in the field of ecology and nature management. They will study the basics of interaction between society and the environment within the framework of the concept of sustainable development. During the training process, a systematic approach to the geographical and geocological knowledge of the world is formed.

During the course, students will acquire the following skills:

- Ecological and scientific research, allowing to study the state of natural environments and objects, during field and ecological expeditions
- Collection and processing of documentation for environmental impact assessment
- Design and implementation of nature conservation measures
- Development of a strategy for regional development taking into account natural resource capabilities
- Carrying out environmental assessment of socio-economic and business activities
- Development of strategy, technology and practical recommendations for preserving the natural environment
- Conducting audit and control activities, environmental audit of the environment
- Teaching specialized disciplines (for example, ecology) in schools, colleges and universities

Future Professions

- Ecologist
- Bio- , geo- , hydro- , agro -ecologist
- Ecologist - nature user
- Environmental inspector
- Ecology teacher