



PASSPORT OF THE EDUCATIONAL PROGRAM

• 6B05202- Ecology

THE PURPOSE OF THE EDUCATIONAL PROGRAM

Training of highly qualified specialists in the field of ecology and nature management, based on a combination of intensive fundamental training of students in general, theoretical and applied ecology with their gradual inclusion in the production environment and research work

FIELD OF PROFESSIONAL ACTIVITY

design, research, production, training, expert departments, departments, firms, institutes engaged in nature protection; services for hydrometeorology and environmental monitoring, environmental safety, environmental policy, environmental services of industries and local governments, sewage treatment plant services, bodies of the system of protected natural territories of various levels; environmental protection units of industrial enterprises; research organizations; educational organizations that carry out educational activities.

LEARNING OUTCOMES (LO)

Upon successful completion of this program, the graduate will:

LO1-is aware of the high social significance of the profession, observes the principles of professional ethics, is able to apply knowledge of ecology, control and measurement tools, trends in the development of the environmental system (ecology) and regulatory legal acts, environmental standards and expertise, GOST And TU;

LO2-evaluates the activities of all subjects of the environmental process, is able to predict environmental processes and implement in practice, to model the environmental process with a target setting for the final goal;

LO3-understands and analyzes the theoretical and applied aspects of the functioning of natural science institutes, has a comprehensive set of tools for expert-analytical and professional activities;

LO4-provides a scientific and environmental interpretation of trends in the development of the environment, taking into account changes in the regulatory framework, international practice, and the influence of internal factors;

LO5-applies systematic theoretical and practical knowledge of natural, social and economic Sciences in solving environmental natural and anthropogenic problems;

LO6-understands the essence and significance of environmental information in the development of modern information society, complies with the basic requirements of information security, including the protection of state secrets;

LO7-has the ability to organize environmental monitoring and monitoring of pollution sources; monitoring of air pollution, internal waters, seas and oceans, and other natural objects;

LO8-is able to participate in interdisciplinary and interagency interaction in solving environmental problems, is able to train and mobility for the development of professional competencies necessary to adapt to a changing labor market;

LO9 - he is proficient in teaching methods and technologies, correlates the content of school programs on the subject with the problems and achievements of specialized Sciences, and also uses modern information technologies in the educational process.