

GRADUATE MODEL 7M05204 – «ECOLOGY»

Type of competence

Competence content

General Scientific competencies

- Knowledge of modern scientific research methods, the ability to develop and implement scientific projects in the field of ecology

Pedagogical competencies

- The ability to develop and implement educational programs, conduct lectures and practical classes, and possess modern teaching methods.

Communication competencies

- Effective communication skills in academic and professional environments, proficiency in Kazakh, Russian and foreign languages for scientific communication.

Research competencies

- The ability to formulate scientific hypotheses, plan and conduct experiments, process and interpret results using statistical and digital methods.

Professional competencies

- The ability to work with innovative technologies aimed at reducing environmental impacts, such as alternative energy, waste recycling, and environmental technologies in production.

Innovative and digital competencies

- The ability to analyze huge amounts of environmental data using digital technologies.

Social and ethical competencies

- The ability to build arguments on issues of ethics of nature conservation, protection of biodiversity and the impact of anthropogenic factors on ecosystems.