Objectives of a Study Programme:

To educate Masters who know the models and methods for processing of environmental information, are able to combine comprehensive knowledge of local and global environmental impact with expertise on technologies and sustainable management to address environmental challenges, maintain the need for life-long professional development.

Access to Professional Activity

The graduate can carry out research, technological, expert, and consulting work in industrial enterprises in the areas of water treatment, decontamination of gaseous effluents and solid waste treatment or implement and maintain environment-friendly technologies, provide environmental services, assess and forecast the status of environment in various industries.
## Environmental Engineering

### Learning outcomes:

#### Knowledge and Understanding

**A1** Have deep knowledge and is able creatively apply traditional and preventive means of environmental engineering for wastewater and gaseous emissions treatment as well as waste disposal.

**A2** In depth knows concepts of environmental economy, management and law and is able to apply them for solution of environmental tasks.

**A3** Knows principles and methods of environmental system research.

#### Engineering Analysis

**B1** Is able to solve non-typical, non-strictly defined and incompletely specified environmental problems and tasks.

**B2** Is able to envisage impact of the traditional and emerging technologies on the environment and is able to choose ways of abatement.

**B3** Is able to use knowledge and understanding for conceptualization of environmental engineering models, systems and processes.

**B4** Is able to apply innovative methods for solution of the technological and organizational tasks of environment protection.

#### Engineering Design

**C1** Is able to apply engineering knowledge and understanding for the solution of the various types of tasks in environmental planning and design.

**C2** Is able to develop new and original environmental engineering ideas and methods.

#### Fundamental and Applied Research

**D1** Is able to identify, find and assess professional data in the data bases and other sources of information.

**D2** Is able to plan and perform analytical, modelling and experimental research, critically assess received data and present conclusions.

**D3** Is able to assess emerging environmental technologies from the technical and organizational point of view.

#### Skills of Practical Work in Solving Engineering Problems

**E1** Is able to integrate knowledge from different areas of engineering and solve complex environmental problems.
Environmental Engineering

Learning outcomes:

E2  In-depth understands applicable techniques and methods and their limitations.
E3  Knows and applies social and economic evaluation criteria in the professional field.

Personal and Social Skills

F1  Is able to function effectively as an individual as well as a leader of an interdisciplinary team.
F2  Is able to work and communicate engineering solutions to the stakeholders in native and foreign languages.
F3  Understands the impact of engineering solutions to the society and the environment.
F4  Is aware of project management and business practices and understands their limitations.