



Learning outcomes for Specialist Graduate Professional Study Programme in Civil Engineering

- Ability to manage construction of all types of building.
- Ability to propose solutions to structures of medium complexity in building construction and in civil engineering.
- Ability to analyse and evaluate the impact of planned construction operations on the environment.
- Ability to manage a construction company according to marketing principles.
- Ability to manage physical assets and human resources.

Specialisation in Civil Engineering Entrepreneurship:

- Ability to manage project design, construction and site organisation.
- Ability to plan work dynamics with all resources necessary for project implementation.
- Ability to select the optimal equivalent of technological and logistic construction processes on the site.
- Ability to evaluate construction operations on the site.
- Ability to calculate the quantities of resources necessary on the site.

Specialisation in Civil Engineering, Water and Traffic Infrastructure:

- Ability to analyse topographic, geotechnical and other parameters concerning design of transportation facilities.
- Ability to carry out geotechnical calculations and propose solutions to geotechnical structures.
- Ability to determine a research plan and propose solutions to road structures, underground structures and tunnels.
- Ability to carry out selection of proper parameters and evaluation of solutions, including impact on the environment.
- Ability to manage construction of larger traffic objects (roads, railways, etc.).

Specialisation in Civil an Environmental Engineering:

- Ability to estimate the impact of structures integration into the environment and propose water and environment protection measures.
- Ability to calculate the basic elements of water utility structures, especially the wastewater treatment systems.
- Ability to conceive comprehensive solutions to solid waste disposal.
- Ability to carry out selection of proper parameters and evaluate solutions to water utilities and hydrotechnical structures.
- Ability to manage construction of larger water utility and hydrotechnical structures.



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Specialisation in Building Construction:

- Ability to make calculations of reinforced concrete, metal and wooden structures of medium-complexity at the main project level.
- Ability to do reinforcement drawings and manufacturing sheets of metal and wooden structures at the construction project level.
- Ability to estimate the suitability of a structure calculation in technical documentation intended to be implemented.
- Ability to organise supervision of medium-complexity construction.
- Ability to demonstrate the cost-effectiveness of materials used in construction.



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