



Learning outcomes for Undergraduate Professional Study Programme in Civil Engineering

- Ability to carry out research for the purposes of planning and construction designing.
- Ability to propose solutions to simple structures in both civil engineering and building construction.
- Ability to investigate the impact of structures on the environment in building preparation phase and after it has been completed.
- Ability to run a construction site in both civil engineering and building construction.
- Ability to link the knowledge acquired in the field of expertise with social skills in teamwork

Specialisation in Civil Engineering Management and Entrepreneurship:

- Ability to manage construction and site preparation and carry out construction work on the site according to predefined rules.
- Ability to plan types of logistical, technical, technological and organisational resources necessary for organisation of construction on the site.
- Ability to evaluate the optimal equivalent of organisation of technological and logistic processes on the site.
- Ability to organise techniques, technology and logistics of construction processes and work safety on the site.
- Ability to sort out and solve logistic and organisational problems on the site.

Specialisation in Civil Engineering, Water and Traffic Infrastructure:

- Ability to calculate the basic hydrological and hydraulic parameters.
- Ability to analyse geotechnical, morphological, topographic and other parameters.
- Ability to propose solutions to simple traffic buildings.
- Ability to propose solutions to small-community water utilities systems, melioration drainage and regulation systems.
- Ability to create simple Bills of Quantities, organise and manage construction of simple structures

Specialisation in Civil and Environmental Engineering:

- Ability to calculate the basic hydrological and hydraulic parameters.
- Ability to analyse geotechnical, morphological, topographic and other parameters.
- Ability to analyse the state of art and propose solutions to water ecosystems protection.
- Ability to propose a concept of simple traffic, utilities and other buildings in civil engineering.



TEL +385 1 5595 455
FAX +385 1 5595 456
MAIL graditeljski_odjel@tvz.hr

WEB www.tvz.hr
ADR Av. V.Holjevca 15
10010 Zagreb
Hrvatska

MB 13 98 270
OIB 088 1400 3451
IBAN HR80 236 0000 1101 350 801



-Ability to create simple Bills of Quantities, organise and manage construction of simple structures.

Specialisation in Building Construction:

- Ability to calculate simple reinforced concrete, metal and wooden structures and their elements.
- Ability to draw drafts of reinforced concrete beams, panels, walls, posts and make construction projects of simple metal and wooden structures.
- Ability to propose the assembly techniques and select the assembly means.
- Ability to plan testing of building materials and their properties.
- Ability to analyse results of testing of building materials and their properties.



TEL +385 1 5595 455
FAX +385 1 5595 456
MAIL graditeljski_odjel@tvz.hr

WEB www.tvz.hr
ADR Av. V.Holjevca 15
10010 Zagreb
Hrvatska

MB 13 98 270
OIB 088 1400 3451
IBAN HR80 236 0000 1101 350 801