

Archived

Diplomirani inženir stavbarstva (un)/diplomirana inženirka stavbarstva (un)

Selected qualifications

Name of qualification	Diplomirani inženir stavbarstva (un)/diplomirana inženirka stavbarstva (un)
Translated title (no legal status)	Civil Engineer
Type of qualification	Diploma prve stopnje (UN)
Category of qualification	Izobrazba
Type of education	Academic bachelor's education
Duration	3 years
Credits	180 credits

Admission requirements

- Matura or
- vocational matura in any secondary school programme and an examination in one of the matura subjects; the selected subject may not be a subject which the candidate has already taken in the vocational matura; or
- school-leaving examination (prior to 1 June 1995) under any four-year secondary school programme.

ISCED field

Field
Tehnika, proizvodne tehnologije in gradbeništvo

ISCED subfield

subfield arhitektura, prostorsko načrtovanje in urbanizem

Qualification level

SQF 7
EQF 6
First level

Learning outcomes

The qualification holder will be able to:

(general competences)

- demonstrate mastery of basic knowledge in the fields of mathematics and physics, mechanics, methodology of engineering planning,
- demonstrate mastery of specific technical criteria in the fields of building engineering physics, materials and the mechanics of structures,
- demonstrate understanding of the fact that it is necessary to follow development,
- resolve problems in accordance with engineering design methodology,
- use and select available instruments at the theoretical level, use computer software and experiments,
- autonomously carry out planning and implementation projects at the level of simple buildings and take part in groups planning complex buildings,
- perceive external impacts such as impact on the environment, health, safety, culture,
- use suitable methods for learning, planning, calculating, analysis and the processing and presentation of data,
- keep abreast of relevant legislation,
- monitor the development of technical regulations and standards,
- participate in the transfer of theoretical knowledge to implementation projects at the level of planning and implementation, their physical practicability, economic value and financial feasibility,
- develop social competences that include, in particular, the field of communications,

(subject-specific competences)

- demonstrate mastery of basic knowledge in the fields of mathematics and physics,
- demonstrate mastery of specific knowledge in the fields that represent the specific basis for the construction profession (construction materials, building engineering physics, construction

- mechanics, systems analysis, informatics for construction and architecture),
- demonstrate mastery of professional fields covering the planning, implementation, maintenance and removal of buildings: design of living and working space, supporting structures, protective structures, project management and related information and communications technologies,
 - demonstrate understanding of the genesis of the built living and working environment,
 - demonstrate mastery of the process of functional analysis,
 - apply basic, specific and professional knowledge to the resolution of engineering problems in simple and less complex buildings and participate in groups planning complex buildings,
 - apply and select analytical methods and tools,
 - carry out critical, comparative analysis of problems that arise during the planning, implementation and use of supporting and protective structures of buildings,
 - keep abreast of the development of new procedures, materials and technologies in the field of construction and complementary fields,
 - analyse the constituent elements of a building: supporting structure, thermal and acoustic insulation, waterproofing, psychophysical and fire protection at the building level; enhance a building, in particular in the context of dynamic systems,
 - conceptualise problems,
 - autonomously draw up plans in accordance with competences under the ZGO, participate in drawing up plans for complex buildings,
 - cooperate in development,
 - apply methods for conceptual planning at the level of protective structures,
 - integrate with other professional fields, in particular those covering building installations,
 - participate in the manufacturing-consumer socio-ecological circle using methodological instruments (system analysis) acquired in the field of engineering analysis and engineering design,
 - demonstrate familiarity with basic research methods,
 - identify problem areas and fields,
 - demonstrate mastery of the application of functional analysis,
 - find suitable sources,
 - demonstrate familiarity with the philosophy of engineering design,
 - review and assimilate experience of specific processes/projects in design in a planning office and in fieldwork and the production of construction materials,
 - organise, manage and assess simple and less complex projects and participating groups engaged in complex projects,
 - adopt new sources: construction materials and systems,
 - integrate the theoretical bases of project management with practical work,
 - use various decision-making methods,
 - work autonomously and participate in a group,
 - communicate their ideas and products to others with an appropriate selection of the communication medium,
 - demonstrate awareness of their responsibility in the context of the activity, where decisions have major financial consequences, in environments where destructive management is becoming a virtue,
 - recognise the different interests of groups that appear in the process of planning and construction,
 - cooperate creatively and responsibly with all factors participating in the life cycle of a building,
 - demonstrate awareness that the study programme they are pursuing is only a part of the study process that they must pursue uninterruptedly throughout their professional career.

Assessment and completion

Students' knowledge is assessed by means of practical exercises and seminar papers, and also via

products, projects, performances, services, etc. and by examinations. Examination performance is graded as follows: 10 (excellent); 9 (very good: above-average knowledge but with some mistakes); 8 (very good: solid results); 7 (good); 6 (adequate: knowledge satisfies minimum criteria); 5–1 (inadequate). In order to pass an examination, a candidate must achieve a grade between adequate (6) and excellent (10).

Progression

Students may enrol in a higher year if by the end of the academic year they have met all enrolment requirements defined by the study programme.

Transitions

Second-cycle master's study programmes (SQF level 8)

Condition for obtaining certificate

In order to complete the programme, students must complete all prescribed course units, for a total of 180 ECTS credits, including practical training and a bachelor's thesis.

Awarding body

University of Ljubljana, Faculty of Civil and Geodetic Engineering

URL

<https://www.en.fgg.uni-lj.si/>
