



FACULTY OF CIVIL ENGINEERING

DOCTORAL DEGREE STUDY

UNIVERSITY OF ŽILINA

Faculty of Civil Engineering

CONTACT

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ACCREDITED STUDY PROGRAMMES OFFERED FOR THE ACADEMIC YEAR 2021/2022

DOCTORAL DEGREE STUDY PROGRAMMES	
FULL-TIME STUDY	PART-TIME STUDY *
STANDARD LENGTH OF STUDY 3 YEARS	STANDARD LENGTH OF STUDY 4 YEARS
Theory and Construction of Building Structures	Theory and Construction of Building Structures
Theory and Construction of Engineering Structures	Theory and Construction of Engineering Structures
Construction Management	Construction Management
Applied Mechanics	Applied Mechanics
* standard tuition fee for part-time study programmes is € 1.000 for an academic year	

Detailed information on particular study programmes:

- syllabus,
- course information sheets

can be found at <http://vzdelavanie.uniza.sk/vzdelavanie/plany.php>.



EXPECTED NUMBER OF ACCEPTED APPLICANTS TO THE FIRST YEAR

DOCTORAL DEGREE STUDY		
STUDY PROGRAMME / FIELD OF STUDY	PLANNED CAPACITY	
	FULL-TIME	PART-TIME
Theory and Construction of Building Structures / Civil Engineering	2	1
Theory and Construction of Engineering Structures / Civil Engineering	3	1
Construction Management / Civil Engineering	1	1
Applied Mechanics / Civil Engineering	2	1
TOTAL	8	4

In case of a low number of applicants for full-time and part-time study, the Faculty retains the right not to open a study programme and to offer applicants another study programme in the same or related field of study.



TERMS AND CONDITIONS OF ADMISSION

Basic condition of admission

The basic condition for admission to doctoral degree study (study programme of the third degree) is the full completion of the second degree of university study (Higher Education Act, no. 131/2002 Coll.) in the field of study Civil Engineering or Mechanical Engineering. In case of a foreign applicant or a student who has completed his / her study abroad, he / she shall submit along with the application form (no later than the date of enrolment) a decision on the recognition of the certificate of completion of the second degree of higher education recognized by a relevant institution in the Slovak Republic or he / she shall ask UNIZA for the recognition of the certificate of education.

Other conditions of admission

Part of the admission procedure is an entrance exam which consists of:

- a written exam in the form of a test in one foreign world language (foreign language is other language than the applicant's mother tongue),
- an oral exam in front of the Committee of the relevant field of study. The purpose of the exam is to verify the applicant's knowledge, his/her professional and scientific orientation in the field for which he/she applies, including the reasons for the choice of the topic and methods foreseen to be used when solving the topic as well as the expected conclusions of the dissertation thesis.

The admission procedure for doctoral degree study at the Faculty of Civil Engineering UNIZA is also regulated by the UNIZA Directive no. 110, as amended by amendment no. 1 and 2 Study Regulations for The Third Degree of University Study at the University of Žilina in Žilina.

A necessary condition is the submission of an application form for university study (doctoral degree - the third degree) within the deadline specified in the document „Notice on Selection Procedure for the Doctoral Study at the faculty of Civil Engineering UNIZA“.

The course of the entrance exam is regulated by the UNIZA Directive no. 110 as amended by amendment no. 1 and 2 The Study Regulations for the Third Degree of University Study at the University of Žilina in Žilina.

The Admission Committee will issue a recommendation on the result of the admission procedure and a proposal of the successful applicants that will be submitted to the Dean of the Faculty of Civil Engineering UNIZA.

The Dean of the Faculty of Civil Engineering UNIZA, after discussing the proposal with the Committee and the guarantors of doctoral degree study programmes, decides on the admission of the applicant within 30 days from the date of the entrance exam.

The Admission Committee evaluates the result of the entrance exam at a non-public session, concluding „passed“ or „failed“.

If more applicants have applied for one topic of the dissertation, the Committee will determine their ranking on the basis of the result of the entrance exam. When ranking, the Committee takes into account the scope and quality of the previous professional publications of each applicant and the results of his/her other professional activities (e.g. the results of students' research, professional or artistic works or competitions, his/her professional practice, etc.). At the same time the Committee will determine the order of all successful applicants.



ADMISSION OF FOREIGN STUDENTS

The basic and other terms and conditions of admission are applicable as for the applicants from abroad as for the applicants from Slovakia.

Foreign students who study in a foreign language (i.e. not Slovak), pay the tuition fee as stated in § 92 Subsection 8 (Higher Education Act). The tuition fee is specified by the UNIZA directive and published for the respective academic year on the university website. Foreign students who study in the Slovak language do not have to pay the tuition fee. Applicants from the Czech Republic who want to apply and study at UNIZA can use the application form valid in the Czech Republic. Applicants who do not actively speak Slovak or Czech are required to attend the language training (it is possible to attend the Slovak language courses at UNIZA). For foreign applicants who were accepted on the basis of intergovernmental agreements, bilateral agreements or Slovak government grants, terms and conditions stated in respective documents are applicable.



APPLICATION FORM

Application forms are to be submitted for the study programme and on the topic listed by the supervisor of the given study programme.

In case the applicant is interested in more study programmes, it is necessary to apply for each one individually, including payment of the respective admission procedure fees.

Applicants have to fill in the form Prihláška na vysokoškolské štúdium - 3. stupeň or they can also use an electronic application form that can be found on the university website: <https://vzdelavanie.uniza.sk/prijimacky/index.php> or on the education portal: <https://prihlaskavs.sk/sk/>. All required attachments can be uploaded electronically as scanned documents.

Application forms submitted after the deadline and electronic application forms without required attachments will not be accepted. In case of non-participation in the admission procedure or a failure in the admission procedure, the Faculty does not refund the admission procedure fee. If the applicant wants to take part in entrance exams at more faculties of UNIZA, the application forms have to be sent separately to each faculty and the respective admission procedure fees paid separately to each faculty.

Enclosures for the doctoral degree study programmes (to be sent with application forms):

- Curriculum Vitae,
- certified copies of the highest level of education completed (the Diploma on completion of university education of the 2nd degree, the Certificate on the state examination, the Diploma Supplement). Documents issued by the Faculty of Civil Engineering UNIZA do not need to be verified.
- a list of published professional and scientific papers,
- other evidence indicating any professional activities,
- the original proof of payment of the admission fee,
- the document from the Ministry of Education, Science, Research and Sport of the Slovak Republic on the recognition of the university study of the 2nd degree completed outside the Slovak Republic (applies to foreign and Slovak applicants who have completed university study of the 2nd degree abroad, including the Czech Republic),
- signed application form (in case of electronic submission).

Admission fee:

Send **20 €** to:

Žilinská univerzita v Žiline, Univerzitná 1, 010 26 Žilina

Bank: Štátna pokladnica

IBAN: SK59 8180 0000 0070 0026 9896

const. symbol: 0308

variable symbol: 10432 – doktorandské štúdium

Payment method:

payment can be paid by bank transfer or postal order to the account above.

Proof of payment:

proof of payment is to be sent to the Faculty with the application form (or upload electronically).

Tuition fees – in accordance with the Higher Education Act, information about the amount of tuition fee for the relevant academic year will be published on the website of the University of Žilina in Žilina within the stipulated deadlines.

With payment of the admission fee from the EU member states, the EES countries, territories that are considered a part of the EU (Treaty of Rome, Section 299) and SEPA countries, it is necessary to use BIC: **SPSRSKBAXXX**, IBAN: **SK59 8180 0000 0070 0026 9896**.



USEFUL DATES

Deadline for submitting the application form	Entrance exams
until May, 31, 2021	June, 24, 2021



ACCOMMODATION

The accommodation facilities of the University of Žilina in Žilina provide accommodation according to the accommodation capacity, taking into account the distance between the student's permanent residence and the seat of the University.

Accommodation fee: € 54 – € 61 / month.



BOARD

Students can use the services of the catering facility of the University of Žilina in Žilina. **Price for food: € 1.10 – € 3.20.**



SCHOLARSHIPS

Full time students of the doctoral degree study programmes are granted a scholarship pursuant to Higher Education Act, n. 131/2002 Coll. (On universities and on amendments to certain laws), §54 Subsection 18.



TUITION FEES

- full-time form of study (3 years)
There is no fee for the standard length of study. In case of its excess, the amount of the tuition fee specified by the UNIZA Directive, the University of Žilina (UNIZA) No. 116, Annex 1, Article 2.
- part-time form of study (4 years)
The amount of tuition fee for the part-time study programmes is € 1.000 for an academic year in accordance with the Higher Education Act 131/2002 Coll. and the UNIZA Directive No. 116, Annex 1, Article 2.



GRADUATE PROSPECTS

DOCTORAL STUDY PROGRAMMES

STRUCTURES

(FIELD OF STUDY 3659 CIVIL ENGINEERING)

Graduates of the doctoral degree study are highly qualified experts in the study programme Theory and Construction of Building Structures with the main focus on the theory of design of architectural structures of buildings and their components with theoretically justified creation of progressive building envelopes and their details in accordance with world development trends. Graduates of the study programme, based on the acquired theoretical engineering knowledge, understood principles and mastered methods of the field are able to clearly formulate the scientific problem, subject and objective of research and development in the field of technology of architecture. They master scientific methods of research and development of architectural structures of buildings, technology and climate of built-architectural environment of buildings and their production-technological processes in conditions of economic efficiency. They are able to clearly formulate the contribution

of research outputs to the development of science in the field of study and to the construction-architectural practice and are capable of independent scientific work. Graduates of the study programme acquired extended knowledge of mathematics and building physics. They deepened the already acquired knowledge in the field of the theory of preparation, design, construction and reconstruction of building structures. They expanded their knowledge in the field of the diagnostics and pathology of buildings, evaluation of energy performance of buildings, strategy for the restoration of buildings, as well as in the field of intelligent building technology and environmental science. The level of knowledge ensures their ability to solve problems of management of buildings on a scientific basis. They can scientifically analyse problems and bring their own solutions in the field of their qualification. Graduates of doctoral degree study are employable mainly in research institutions, science parks, research centres as an independent or senior researchers at universities, in the development of science and technology in architecture or in corporate research and development. They are also employable in top management positions, in project teams of different nature. They are qualified to work in investor organisations, construction companies and in consulting and advisory companies.

THEORY AND CONSTRUCTION OF ENGINEERING STRUCTURES

(Field of study 3659 Civil Engineering)

Graduates are highly qualified experts in the study programme Theory and Construction of Engineering Structures with a main focus on the theory of design and analysis of engineering structures, transport and civil engineering structures and their components. They are able to creatively apply the principles of scientific research, propose new approaches and improve the existing methods of the theory of engineering structures. They master the progressive tools of design theory and technology of construction of engineering structures, as well as the methodology of their diagnostics and rehabilitation. The theoretical knowledge acquired in the course of the study can be applied in the experimental analysis of the behaviour of engineering structures and in their combination with model solutions and results of numerical simulations.

Graduates of the doctoral degree study will find employment especially in research institutions, science parks, research centres as an independent or leading researchers, at universities in the development of science of engineering structures and transport structures or in corporate research and development. They are also employable in top managerial positions and in project teams of different nature. They can also work in investor organisations, construction companies, consulting and advisory companies. The content and structure of the study programme follows the study programmes of master´s (engineering) degree study at the Faculty of Civil Engineering UNIZA in the field of study Civil Engineering Structures. These correspond to the structure and scope of the subjects required by the Slovak Chamber of Civil Engineers to acquire a professional qualification to perform the position of an authorized (chartered) civil engineer. By completing the study programme and earning the third degree of higher education, graduates obtained a sufficient basis on which they can apply for the relevant authorization after completing appropriate practice.

CONSTRUCTION MANAGEMENT

(Field of study 3659 Civil Engineering)

Graduates are highly qualified experts in the field of civil engineering with a main focus on the theory of construction management. They master scientific methods of research and can creatively apply existing methods and theories in the field. They are able to apply the theoretical knowledge gained by studying the methodology of scientific work in the preparation and implementation of scientific experiment. They are able to carry out research activities with regard to the ethical and social aspects of scientific activities and their contribution to practice. They master progressive methods of mathematical-computer simulations on the basis of which they are able to optimise the system of design of construction technologies. Graduates are able to use the knowledge of diagnostics and probability theory to design the optimisation of maintenance, repairs and reconstructions of buildings. They are able to optimise technological processes in relation to the life cycle of buildings, their lifetime and environmental aspects. Graduates are able to apply their knowledge in order to increase the safety of operation of traffic structures. They are employable in investor organisations of state administration, regional self-government and municipalities, in construction companies, consulting and advisory companies, in research and in organizations dealing with administration of structures. They are employable in the field of investment preparation, preparation and construction of buildings, economic analysis and studies and asset management. Graduates can also be employed in the preparation and management of investment projects in building industry. They are competent to work in scientific and research institutions and universities. By completing the study programme and earning the third degree of higher education, graduates obtained a sufficient basis on which they can apply for the relevant authorization after completing appropriate practice.

APPLIED MECHANICS

(Field of study 2381 Civil Engineering)

Graduates are highly qualified experts in the study programme Applied Mechanics with a main focus on the creation of calculation models of building structures and their solutions by modern calculation methods, as well as experimental analysis and diagnostics of these structures. Graduates acquired a broad theoretical basis in the field of modelling of static, dynamic, linear and nonlinear problems of the theory of structures based on modern numerical calculation methods and application of current software engineering tools. They master new procedures, methods and tools usable in the design and construction of complex mechanical systems and building structures as well as their diagnostics and experimental analysis. They are employable in research and project organisations. They are ready to solve specific and particularly technically challenging engineering works. They are also employable in scientific and research institutions and universities.