UNIVERSITY OF ŽILINA

Description of the study programme

Source: SAAVŠ

Name of the higher education institution: **University of Žilina**
Address of the higher education institution: Univerzitná 8215/1, 010 26 Žilina
Identification number of the higher education institution:
Name of the faculty: **Faculty of Civil Engineering**
Address of the faculty: Univerzitná 8215/1, 010 26 Žilina

Institution body for approving the study programme: **Accreditation Board of UNIZA**
Date of the study programme approval or the study programme modification: 17.8.2022
Date of the latest change[1] in the study programme description: 17.8.2022
Reference to the results of the latest periodic review of the study programme by the institution:
https://www.uniza.sk/index.php/component/content/article/5565-spravy-o-hodnoteni-studijnych-programov-na-svf-za-akademicky-rok-2023-2024?catid=2:uncategorised&Itemid=101
Reference to the assessment report of the application for accreditation of the study programme under § 30 of Act no. 269/2018 Coll.: 166692022/139-VS-OAC

1.	Basic information about the study programme			
a	**Name of the study programme**	Theory and Structures of Buildings	**Number according to the register of study programmes**	103623
b	**Degree of higher education**	3	**ISCED-F education degree code**	864
c	**Place(s) of delivery of the study programme**	University of Žilina		
d	**Name of the field / Combination of two fields of study**	Civil Engineering	**Number of the field of study**	3659V00
			ISCED-F codes of the field/fields	3631
e	**Type of the study programme**	academically oriented		
f	**Awarded academic degree**	PhD.		
g	**Form of study**	full-time		
h	**Cooperating institutions and the range of study obligations the student fulfils at each of the given institutions**	-		
i	**Language or languages in which the study programme is delivered**	English		
j	**Standard length of the study expressed in academic years**	3 years		
k	**Capacity of the study programme (planned number of students)**	"Principles and rules of the admission procedure for doctoral studies at the Faculty of FCE UNIZA: "*https://svf.uniza.sk/subory/Okt%C3%B3ber_2024/2024_Zasady_prijimacieho_konania_2025_2026_PhD.pdf* https://svf.uniza.sk/index.php/component/content/article/2-uncategorised/2921-informacie-o-moznosti-studia-pre-akademicky-rok-2026-2027?Itemid=2921		
	Actual number of applicants	"Evaluation reports on the level of educational activities at FCE UNIZA" and Annual reports of FCE UNIZA: https://svf.uniza.sk/index.php/fakulta/vseobecne-informacie/uradna-tabula https://uniza.sk/index.php/hodnotiace-spravy-svf		
	Actual number of students	"Evaluation reports on the level of educational activities at FCE UNIZA" and Annual reports of FCE UNIZA: *https://svf.uniza.sk/index.php/fakulta/vseobecne-informacie/uradna-tabula https://uniza.sk/index.php/hodnotiace-spravy-svf*		

2. Graduate profile and learning objectives

a **Learning objectives of the study programme such as student's abilities at the time of completion of the programme and the main learning outcomes**

Graduate profile
The graduates are highly qualified specialists in the field of study of construction with a primary focus on the theory of design and analysis of building structures and their components. They can creatively apply the principles of scientific research, proposing new approaches and improving existing methods of theory and construction of buildings, including load-bearing parts. They possess extensive knowledge about the progressive tools of design and construction technologies and the methodology of building diagnostics

[1] If the change is not a modification of the study programme according to § 30 of Act no. 269/2018 Coll.

2. Graduate profile and learning objectives

and restoration. They are able to apply the theoretical knowledge gained throughout the studies in the experimental analysis of the behaviour of buildings and also in its combination with the model solutions and the results of numerical simulations.

[CV 1] To enable top students in the 2nd degree of higher education to make a qualified decision to choose the 3rd degree of university study of the doctoral study programme in the field of Civil Engineering through suitable means of information transfer.

[CV 2] To recommend and propose to top students from other faculties and from abroad (based on the requirements of the graduate profile) the continuation of education in the 3rd degree of higher education and thus increase their competitiveness in the European labour market.

[CV 3] To prepare students through appropriate choice and availability of subjects from the core of knowledge and through a combination of compulsory and optional subjects designed for the future profession of scientist, researcher and manager in the field of construction.

[CV 4] To teach students the methodology of scientific research, methods of theoretical analysis, and experimental research and thus prepare them for the profession of scientist, researcher and innovator.

[CV 5] To prepare students for mastering specialised software in the field of scientific analysis, computer graphics, BIM tools, modelling, simulations and other computer and information technologies. To support knowledge acquisition for working with the most modern software products focused on their specialisation.

[CV 6] To prepare students for the processing of scientific and professional analyses of the theory of designing modern, reliable and durable building structures, including the use of smart materials, future-oriented and economical envelopes and supporting structures, using modern technologies during their construction and to enable them to carry out scientific research in studios, laboratories and companies doing research activities.

[CV 7] To develop the specifics of the study programme within the scope of Civil Engineering faculties of the Slovak Republic, especially through the increased focus of study programmes of all three degrees of education at FCE UNIZA on progressive wooden constructions, application of renewable energy sources and renovation of buildings, including historical ones.

[CV 8] Make students aware of the current international efforts, documents and commitments in the areas - the Green Deal, Paris and Dublin Declarations, European Commission White Papers, sustainable development and construction, the circular economy, or new ones that are yet to emerge.

[CV 9] To expand the field of knowledge of students by inviting prominent experts in the field and researchers from research institutes in the Slovak Republic and abroad.

[CV 10] To enable students to take part in international mobility or internships in order to acquire up-to-date knowledge and observe trends in research in the field of theory and construction of buildings.
Learning outcomes:

Cognitive knowledge
Graduates:
[VV1] Can evaluate and appropriately select specific scientific methods of basic and applied research, can scientifically research and bring forth their own theoretically and experimentally justified original solutions to technical and technological problems in the field of envelope and load-bearing structures of buildings in the form of physical or abstract outputs.

[VV2] Gain highly specialised knowledge of the theory of design, preparation, implementation, maintenance, renovation and remediation of buildings in their complex understanding and interrelationships, as well as in research areas.

[VV3] Can work with specialized software for scientific and technical analysis, possesses extensive knowledge of computer graphics, simulation techniques and the latest computer and information technologies, including BIM resources.

Skills
Graduates:
[VV4] Grasp the methods of research, development and evaluation of energy efficiency and efficiency of buildings, environmental equipment, environmental aspects and sustainability of buildings, and use them in finding new procedures, detailed solutions or important interactive system links. A part of their core skills is also gained through a scientific experiment - computational, laboratory or "in situ" experiment and methods of its evaluation.

[VV5] Can independently integrate and apply theoretical and practical knowledge, critically analyse and assess proposals in areas of research, development and innovation of buildings and their immediate surroundings, and are able to present their own original solutions to challenging problems and creatively apply the acquired knowledge in practice, not only locally but also internationally.

[VV6] Can model, optimise and evaluate material, construction, technical and technological solutions associated with the design, implementation, operation, maintenance, renovation and disposal of buildings in the environment of the most modern information and virtual technologies, and optimise alternative solutions in relation to static, energy, environmental and economic parameters of sustainability.

[VV7] Demonstrate a systematic understanding in the civil engineering field with regards to the acquisition of skills and knowledge of methods of scientific research, corresponding to the current state of knowledge in the field. They understand the construction work as a complex unit in its qualitative, urban, architectural, cultural, structural, static, environmental, energy, social, economic, and technical-functional contexts within its life cycle.

Competences Graduates:
[VV8] Can research, develop and manage the design and construction of buildings with a high degree of creativity, innovation and independence, including their use, restoration and environmentally suitable disposal, with a minimal carbon footprint.

[VV 9] Utilise innovative thinking, being ready to present the results of their research and analyses to an audience of industry experts, and are competent enough to solve scientific problems within an interdisciplinary research team and later, after the acquisition of sufficient experience and erudition, lead such teams.

[VV 10] Are able to support technological, social and cultural progress in a knowledge-based society in an academic and professional context. They are ready to take an active approach to tackling issues related to global climate change, the green agenda and the

2. Graduate profile and learning objectives

collaborative economy.

The difference between the study programme from other faculties of civil engineering in the Slovak Republic lies in its greater focus on wooden constructions and renovation of buildings, including historic buildings. The combination of structural, material and static aspects of construction and renovation of buildings into a joint study programme (with the specialisations in building construction or load-bearing structures of buildings) is unique.

Indicated professions for which the graduate is prepared at the time of completion and the potential of the study programme from the point of view of graduate's employability

The graduates have a wide range of employment opportunities in the positions of the project manager of building structures, chief project engineer, as well as in the whole spectrum of other professions in the field of envelope and load-bearing structures, building physics and fire safety, including state administration in these areas. They are prepared for educational and creative scientific research activities within the academic environment or in research centres and science parks, or other research-oriented organisations.

A part of the graduates of TaSoB leaves for practice after graduation. Similar to 2nd-degree graduates, after 3 years of practice they can apply for qualifications as:

- **Authorized engineer for building constructions (category I1)** with the right to prepare project documentation for building permits and to provide technical and economic advice related to building constructions – specialisation buildingconstruction.
- **Authorized civil engineer for building statics (category I3)** with the authority to provide services reserved for structural engineers according to general regulations, especially for the preparation of project documentation of load-bearing structures of buildings, verification of projects in terms of mechanical resistance and stability of buildings, surveys, construction measurements and construction diagnostics and technical consultancy concerning the statics and dynamics of load-bearing structures of buildings - **specialisation load-bearing structures of buildings.**

b

Additionally, after meeting the prescribed conditions, they can obtain licenses as experts in the field of energy efficiency of buildings (specialised skills in accordance with Act No. 555/2005 as amended) in the part of thermal protection of buildings and structures and according to Act No. 382/2004, as amended, (on experts, interpreters and translators), after completing additional training, they may apply for appointment as experts in the field of construction of civil engineering, building physics, building statics and structural failures.
When choosing these professions, it is assumed that the activities performed are similar to the activities of the chief project engineer for the area of buildings or to the structural engineer for the area of their load-bearing structures.

The conduct of these jobs is regulated by the following legal regulations:

- Act no. 455/1991 Coll. on Trade Licensing (Trade Licensing Act), as amended, if the business activity is performed on the basis of a trade license.
- Act no. 50/1976 Coll. on Spatial Planning and Building Regulations (Building Act) as amended.
- Act no. 138/1992 Coll. on authorized architects and authorised civil engineers, as amended. Directive 2005/36 / EC of the European Parliament and of the Council.
- Act 568/2009 Coll. on Lifelong Learning and on Amendments to Certain Acts, as amended, § 17 and § 18.

If the graduates remain in the academic environment after graduation, they are qualified to perform the profession of a researcher and after completing continuing education in the field of pedagogical science, they are qualified to perform the profession of a university teacher.

c

Relevant external stakeholders who have provided the statement or a favourable opinion on the compliance of the acquired qualification with the sector-specific requirements for the profession

- Slovak Chamber of Civil Engineers (SKSI),
- Building Testing and Research Institute, Žilina branch (TSÚS).

3. Employability

Evaluation of the study programme graduates employability

The graduates of the doctoral study are highly qualified specialists in the field of design and theoretical and experimental evaluation of load-bearing and envelope structures of buildings in reflection on the quality of their internal environment and optimisation of load-bearing elements.
Graduates of the study programme of Theory and Structures of Buildings (TaSoB) show zero unemployment, or in other words 100% employment. They work as designers in project organisations with an orientation on buildings and their load-bearing structures, self-employed professionals, research experts in organisations that are related to their field, or remain in the academic environment as researchers or university teachers.

a

Due to the small number of graduates, the online portal www.uplatnenie.sk does not display any information about graduate employability on the market.

The concept of the doctoral study programme as a continuation of second degree higher education, which was preceded by the four-year bachelor's degree with its broad scope in civil engineering and great versatility allows graduates to find work in the European labour market across the whole of the construction industry.

b **Successful graduates of the study programme**

The TaSoB study programme was accredited in 2016. Its teaching began in the academic year 2016/2017. It is, therefore, a relatively young programme and the list of graduates with their employment is as follows:

- Ing. Veronika Boháčiková (Kabátová), PhD.:

Professional profile: project preparation
Company name (job position): investment department, municipal office Brezno, policy officer

- Ing. Daniela Michálková, PhD.:

3. Employability

Professional profile: building structures, building physics
Company name (job position): Department of structural engineering and urbanism, Faculty of Civil Engineering, UNIZA, assistant professor,

- Ing. Peter Barňák, PhD.:

Professional profile: certification of construction products
Company name (job position): Building Testing and Research Institute, Žilina branch (TSÚS), specialist,

- Ing. Dominika Vandličková, PhD.:

Professional profile: specialist in building physics and fire safety
Company name (job position): PROMA s. r. o., Žilina, designer.

c Evaluation of the study programme quality by employers (feedback)

Building Testing and Research Institue, Žilina branch (TSÚS) – employs one recent graduate of the doctoral studies and is in negotiations with
another future graduate (Ing. Kysela) regarding his permanent employment.

PROMA s. r. o., Žilina, design and construction company - employs one PhD graduate (Ing. Vandličková, PhD.) and is satisfied with her readiness for the work field.

Faculty of Civil Engineering, UNIZA - employs several graduates of Theory and Construction of Building Structures as well as Theory and Construction of Engineering Structures with an orientation on load-bearing structures of buildings, and is satisfied with their readiness and offers them further education and qualification development opportunities.

INSET, s.r.o., division Slovakia - diagnostics of building and engineering structures, employs graduates and expresses satisfaction with the readiness of our graduates.

4. Structure and content of the study programme

Rules for the design of study plans within the study programme

Specifically, for the 3rd degree of higher education, the processes, procedures and structures are defined by Directive No. 216 **Quality Ass**

At the level of the study programme, the above-mentioned directive is thoroughly observed. Study plans are based on accepted university ru

Education in the doctoral study programme of Theory and Construction of Building Structures (TaSoB) is carried out on the basis of the indiv The doctoral student's study plan is determined by the supervisor in accordance with the recommended study plan given in the chart below.

a Education is based on the acquisition of knowledge at the level of current knowledge and the doctoral student's own contribution to it. It is th student. The quality of the 3rd level of higher education depends on the quality of the scientific research work of the training workplace, ther linked to their scientific research activities and the research activities of their supervisors, which are carried out mainly through solving resea

The supervisor of the doctoral student is responsible for the quality and level of the individual study plan, while the doctoral student actively commission responsible for a workgroup and guarantor of the study programme.

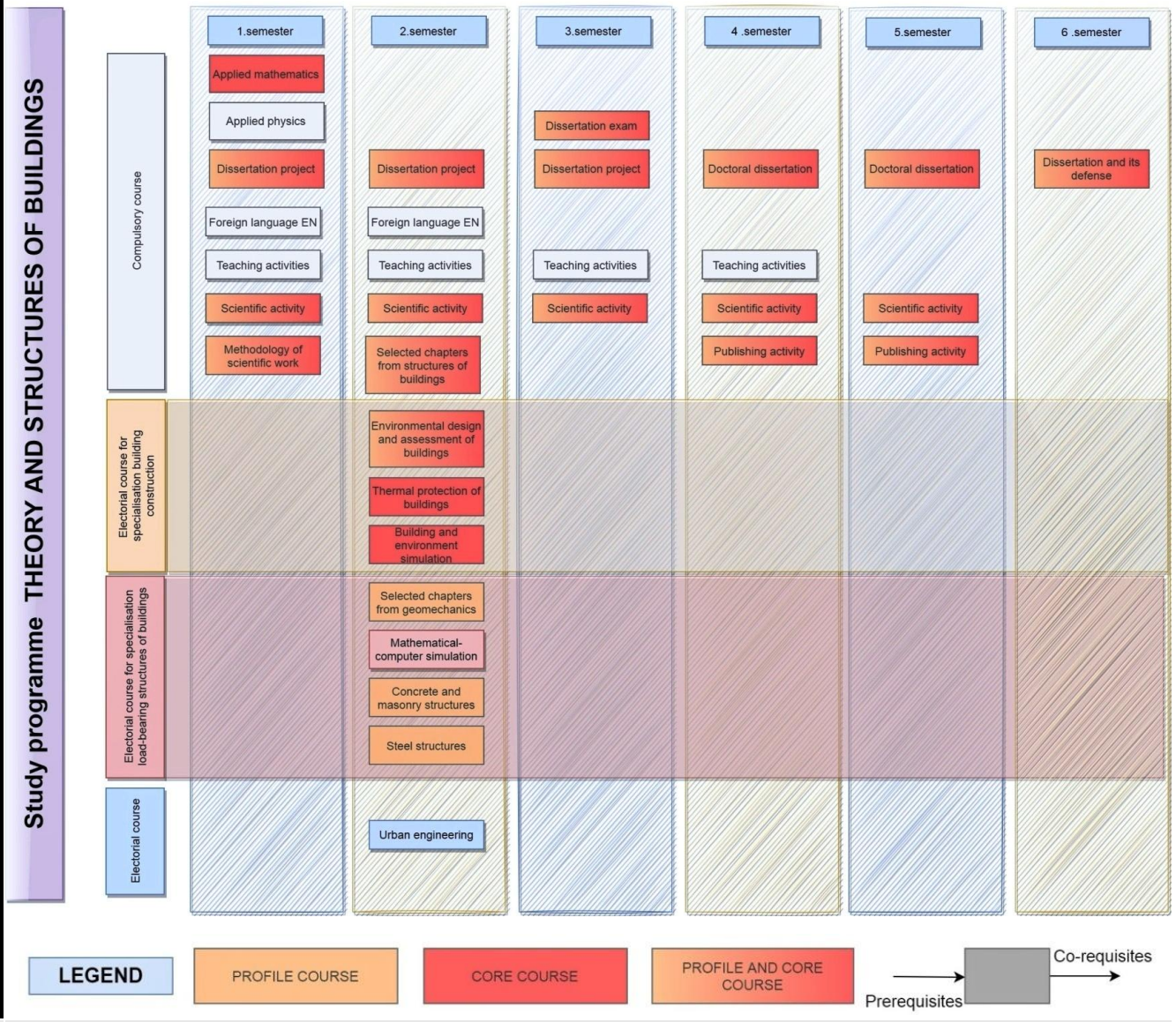
The doctoral study consists of the educational and scientific parts, the content and mutual relationships in credit terms are regulated by UNI UNIZA is governed by *Directive No. 110* **Study Regulations for the Third Degree of University Studies at the University of Žilina**.

b Recommended study plans for individual study paths

The recommended study plan for the study program is shown in the chart above. The students can choose from two offered educational pat **bearing structures of buildings**, the student can choose at least **3 electoral courses** in the second semester.

The study program **(TKPS) is not a combination of study fields** and it is not even a multidisciplinary SP, the degree of content matching o the study field 35. civil engineering. The areas and scope of knowledge, skills and competencies that profile the graduate of the third-degree framework.

4. Structure and content of the study programme



c **The study programme, in the structure of compulsory, compulsory optional and optional courses**
Profile courses of the relevant study path (specialization) within the study programme - Appendix 1

Number of credits, the achievement of which is a condition for proper completion of studies

180.0

Other requirements that the student must meet within the study programme and for its proper completion, including the requirem interruption of study

Conditions during the study

During the studies, the doctoral student must obtain the prescribed number of credits, specifically for the following activities:
a. completion of specialised doctoral lectures and seminars according to the doctoral student's study plan,
b. successful completion of the dissertation exam,
c. pedagogical activity in the full-time form of study in the maximum extent of 4 hours per week,
d. independent activity in the field of scientific research and pedagogy (publications, active co-solving of scientific tasks, supervision of work
e. acceptance of dissertation for defence.

d The doctoral student's study plan consists of a study part, which ends with a dissertation examination, a scientific part and the defense of the student's individual study plan, which is approved by the supervisor, the Dean and the Joint Commission of the UNIZA for Civil Engineering. participation in lectures, seminars and individual study of literature according to the focus of the dissertation, for which the supervisor allocate plan of the doctoral student contains a list of subjects to be completed by the doctoral student, a list of dissertation examination subjects sel recommended literature. The scientific part of the doctoral student's study plan consists of individual or team scientific work of the doctoral s doctoral student's study plan is professionally guaranteed by the supervisor. The number of credits for individual activities is determined by t

The supervisor submits to the Dean an annual evaluation of the fulfilment of the doctoral student's study programme no later than 31st August continuing the student's studies. At the same time, the supervisor evaluates the status and level of fulfilment of the doctoral student's study submitting a proposal to modify the student's individual study programme.

The doctoral student registers for the dissertation examination in the full-time form of doctoral studies no later than 18 months from the date written work prepared for the dissertation examination together with the application for the dissertation examination. The written work for the the current state of knowledge on the topic, an outline of the theoretical foundations of its future solution and an analysis of the methodology of the faculty, prepares a report for the written work for the dissertation examination. The dissertation examination consists of a discussion p doctoral student has to demonstrate theoretical knowledge in the specified subjects of the dissertation examination. The dissertation examin

4. Structure and content of the study programme

number of credits required for the proper completion of studies/completion of a part of the studies for project work with the indication of relevant programmes

number of credits required for the proper completion of studies/completion of a part of the studies for artistic performances in addition to the

Rules for the verification of learning outcomes, students' assessment and the possibilities of appealing against the assessment

At the university level, the processes, procedures and structures are defined by Directive No. 110: **Study Regulations for the Third Degre Quality Assurance of the Doctoral Degree Studies at the University of Žilina.**

Doctoral studies are evaluated according to the principles of the credit system in accordance with the Decree of the Ministry of Education of § 54 par. 2 of the University Act and the principles set out in Directive No. 216 Quality Assurance of the Doctoral Degree Studies at the Univ implementation as well as during its completion. A successfully completed doctoral study is considered to be one in which, in addition to me has published the results of their work stated in the individual study plan in the form prescribed.
During the implementation of the study programme, the subject of the evaluation is mainly the facts related to the fulfilment of the content of once a year at the end of the academic year by the supervisor and approved by the guarantor of the study programme and subsequently by The decisive stages of the studies are the dissertation examination and the defence of the dissertation. A doctoral student that has not fulfill
f have sufficient credits may not register for the dissertation examination or apply for permission to defend the dissertation. The quality of the part of the evaluation of the level of the public university in educational activities and in the field of science, technology or art.
Part of the doctoral study is focused on publishing activities of the doctoral student in cooperation with his supervisor. Successful completion field of publication of doctoral students in the individual study plan of the doctoral student and the minimum criteria for doctoral study outcom for successful completion of doctoral studies, **form Appendix 1 of** Directive No. 216. The quality of the doctoral student's outcomes and th the supervisor as part of the annual evaluation, and the results are submitted to the guarantor or the Dean. The quality of all publications, pa and opponents within the defence of the dissertation, emphasising their international level and contribution to the development of the releva The quality of the achievements, especially of the doctoral students close to finishing the programme, is continuously discussed and the res The learning outcomes at the subject level are clearly measurable by defined assessment methods, which are listed in the individual informa students in individual subjects is applied in accordance with the principles of evaluation stated in the UNIZA Methodological Recommendatic individual subjects, that is whether it is a lecture in combination with exercise or laboratory exercise, so the nature of the lecture or the exerc Information Sheet and evaluated by the number of credits.

Conditions for the recognition of studies or a part of studies

At the university level, doctoral studies are governed by the rules defined in Directive No. 110 **Study Regulations for the Third Degree of Assurance of the Doctoral Degree Studies at the University of Žilina.**

In the case of foreign mobilities and internships, Directive No. 219 **Mobility Programmes of the UNIZA Students and Staff Abroad,** defin
g of studies.

These directives also govern the conditions for the recognition of studies (or parts of studies) at the faculty.

In the case of the TaSoB study programme, the guarantor of the study programme decides on the recognition of the study, its part or individ takes into account the fulfilment of the core knowledge of the study programme. This applies to applicants from Slovakia as well as from abr

Topics of final theses of the study programme (or a link to the list)

The topics of the dissertations, on the proposal of the supervisors, are approved by the Dean and made public no later than two months bef can be applied for in the admission procedure. For each topic, the name of the study programme, the name of the supervisor, the form of stu
h of the admission procedure are given.

Proposals for dissertation topics are made public and published on the official board of the faculty's website, which also publishes the metho determined by the academic calendar of the training workplace.

i Rules for the assignment, processing, opposition, defence and evaluation of final theses in the study programme; list of the super details)

Rules for the assignment, processing, opposition, defence and evaluation of final theses in the study programme; list of the supervisors of fi The rules for awarding, processing, opposing, defending and evaluating dissertations are defined by Directive No. 110 **Study Regulations f** Directive No. 216 **Quality Assurance of the Doctoral Degree Studies at the University of Žilina** and Directive No. 215 **On Final, Rigoro**

Proposals for dissertations on the basis of supervisors with the consent of the members and the chairman of the Joint Commission are appr last day for submitting applications for doctoral studies. For each topic, the name of the study programme, the name of the supervisor, the fo the date of the entrance examination are given. Proposals for dissertation topics are made public and published on the official board of the f applying for study. The date of publication of the dissertation topics is determined by the academic calendar of the training workplace.

The entrance examination shall take place before an admissions committee consisting of at least four members. The Admissions Committee Another member of the commission is a supervisor for the listed topic. The Admissions Committee evaluates the result of the entrance exa than one candidate applies for one topic, their order is determined according to the success of the entrance examination. In determining the applicant's previous study, professional or publication activities and the results of their other professional activities. The current involvement competitions is also favourable for the applicant. Based on the results of the entrance examination, the Dean decides on the admission of th decides positively on the admission of an applicant, they also state the name of the supervisor and the topic of the dissertation in their decisi instructions on the possibility of submitting a request for review of the decision and must be delivered to the addressee only.

During the implementation of the study programme, the facts related to the fulfilment of the content of the individual study plan of the doctor the academic year by the supervisor and approved by the guarantor of the study programme and subsequently by the Dean. The decisive fa doctoral student who does not fulfil all the obligations arising from the individual study plan and who does not have sufficient credits cannot dissertation.

Within the deadline set for the submission of the thesis, the author of the thesis personally uploads its electronic version, identical to the bou into the system Records of Final Theses (hereinafter EZP). Access to EZP is possible via the page: http://kniznica.uniza.sk/ezp

UNIZA then sends the work in the electronic form to the Central Register of Final, Rigorous and Habilitation Theses (CRZP), where the degr relevant opinions of opponents, supervisors, supervisors of final theses or rigorous theses, reviewers or other persons are sent in electronic the period of its retention.

4. Structure and content of the study programme

From the CRZP, the university obtains the information needed to verify the degree of originality - evaluation of originality. The result is descri assesses the degree of originality based on the result of the text compliance check and prepares a report. In this report, it is stated whether defence commission decides on the originality of the work. The basis for the decision of the committee on the final thesis is the opinion of th Review Protocol and the defence of the final thesis by its author.

The doctoral study student submits to the Dean an application for permission to defend the dissertation in accordance with the study schedu application for permission to defend the dissertation, the Dean submits to the chairman of the Joint Commission the doctoral student's applic the defence commission and the opponents' proposal. Commission and minimum 2 opponents are then appointed by the dean of the faculty

After receiving all the opinions from the opponents, the Dean forwards the doctoral student's request for permission to defend the dissertatio chairman of the defence commission. After receiving the materials, the chairman of the defence commission proposes to the Dean the time forms one subject. The defence of the dissertation is a state examination and in the standard length of study, the doctoral student must com length of study. The defence of the dissertation takes place in the form of a scientific debate. The doctoral student presents the content of th which the doctoral student also gives an opinion. The discussion verifies the accuracy, justification and scientific origin of the knowledge con least two-thirds of the members of the defence commission entitled to vote, including at least two opponents, and at least one member of th

At the end of the defence, a closed meeting of the commission is held, which is attended by its members, including opponents and the supe the possibility of using the results of the dissertation in practice. The commission will decide on the originality of the work after the defence. The basis for the decision of the committee on the final thesis is the opinion of the final thesis supervisor, the opinion of the dissertation opp author. At the same time, the commission and the opponents decide in a secret ballot whether the commission proposes to award the docto defence of the dissertation with a mark, while the classification is carried out according to the classification scale specified in Directive no. 11 vote to the doctoral student and the other participants present at its public meeting. A proposal for the award or non-award of an academic d doctoral student, is submitted by the chairman of the defence commission to the Dean. After a positive assessment of the proposal of the di "doctor" to a doctoral candidate, the Dean submits to the Rector evidence of graduation. Academic degree "doctor" ("*Philosophiae doctor*", a defence of the dissertation.

Evidence of completion of the doctoral study programme TaSoB in the field of study Construction is a university diploma, a certificate of stat handed over to the doctoral student by the Dean at a graduation ceremony, organised according to the traditions and customs of UNIZA.

Opportunities and procedures for participation in student mobility

In the case of foreign mobility and internships, Directive No. 219 **Mobility Programmes of the UNIZA Students and Staff Abroad** defines studies within the scope of student mobility.

At the faculty level, the fulfilment of the relevant processes, procedures and structures within the framework of student mobility is ensured by Cooperation. With their help and with the help of the study programme guarantor, the student compiles the study plan from the offer of study optional study programme subjects that the student has prescribed in their study programme for the relevant academic year at UNIZA. When studying at another university abroad according to Art. 7 paragraph 7 of the UNIZA Academic Rules of Procedure, a contract is concl partner institution that provides the study. Details are described in the Decree of the Ministry of Education, Youth and Sports of the Slovak R starts attending a foreign university.

In the case of an internship abroad, the student fills in the "*Learning agreement*" form in addition to the agreement "*Information about the pla* student going abroad for the academic year. In the document, the names of subjects that are to be completed abroad and their equivalents Directive No. 219 also defines the obligations of the student before travelling abroad as well as after returning from a foreign university.

Rules for adherence to academic ethics and rules for drawing consequences

At the university level, Directive No. 207 **Code of Ethics of the University of Žilina** and Directive No. 201 **Disciplinary Code for Students** the academic study. Both documents are also valid at the faculty level.

The essence of the Code of Ethics is that all persons employed or studying at the university are governed by the following ethical principles: consideration, responsibility, sense of duty, respect for the dignity of others and awareness of one's own dignity and honour, while also respe field of pedagogy and research are defined and forms of violations are defined.

The disciplinary rules for UNIZA students define the following terms: disciplinary offence, the person responsible for the disciplinary offence, measure and review of the decision imposing a disciplinary measure.

Procedures applicable to students with special needs

At the university level, Directive No. 198 Support for Applicants and Students with Special Needs at the University of Žilina, Directive No. 11 **University of Žilina** and Directive No. 216 **Quality Assurance of the Doctoral Degree Studies at the University of Žilina** define process

The rules defined by these directives also apply at the faculty level.

Procedures for filing complaints and appeals by students

At the university and faculty level, the processes, procedures and structures with regard to filing complaints and appeals are defined by Dire **at the University of Žilina.**

The rules on student access to corrective actions are defined in Article 9 of this directive and, in part, in Article 15. FCE UNIZA follows the pr

5. Course information sheets of the study programme (In the structure according to Decree no. 614/2002 Coll)

Compulsory courses

5. Course information sheets of the study programme (In the structure according to Decree no. 614/2002 Coll)

Grd.	Sem.	Course	Name	Short.	Hours	End	Credits	Profile	Core	Guarantor
1	Z	4D0D101	Applied mathematics	AM	2 - 0 - 0	S	5	-	yes	doc. Ing. Mária Kúdelčíková, PhD.
1	Z	4D0D102	Applied physics	AP	2 - 0 - 0	S	5	-	-	prof. RNDr. Jozef Kúdelčík, PhD.
1	Z	4D0D106	Methodology of scientific work	MSW	0 - 2 - 0	S	5	yes	yes	prof. Ing. Marián Drusa, PhD.
1	Z	4D0D107	Foreing language EN	FL	0 - 2 - 0	V	2	-	-	PaedDr. Lenka Môcová, PhD.
1	Z	4DPD103	Teaching activities	TA	0 - 4 - 0	V	2	-	-	prof. Ing. Peter Koteš, PhD.
1	Z	4DPD104	Scientific activity	SA	0 - 2 - 0	V	3	yes	yes	prof. Ing. Pavol Ďurica, CSc.
1	Z	4DPD105	Dissertation project	DP	0 - 2 - 0	V	5	yes	yes	doc. Ing. Daniel Papán, PhD.
1	L	4D0D205	Foreing language EN	FL	0 - 2 - 0	S	3	-	-	Mgr. Eva Leláková, PhD.
1	L	4DPD201	Teaching activities	TA	0 - 4 - 0	V	2	-	-	prof. Ing. Peter Koteš, PhD.
1	L	4DPD202	Scientific activity	SA	0 - 2 - 0	V	3	yes	yes	prof. Ing. Pavol Ďurica, CSc.
1	L	4DPD203	Dissertation project	DP	0 - 2 - 0	V	5	yes	yes	doc. Ing. Daniel Papán, PhD.
1	L	4DPD204	Selected Chapters from Structures of Buildings	SChSoB	2 - 0 - 0	S	5	yes	yes	prof. Ing. Pavol Ďurica, CSc.
2	Z	4DPD301	Teaching activities	TA	0 - 4 - 0	V	2	-	-	prof. Ing. Peter Koteš, PhD.
2	Z	4DPD302	Scientific activity	SA	0 - 2 - 0	V	8	yes	yes	prof. Ing. Pavol Ďurica, CSc.
2	Z	4DPD303	Dissertation project	DP	0 - 2 - 0	V	5	yes	yes	doc. Ing. Daniel Papán, PhD.
2	Z	4DPD304	Dissertation exam	DiEx	0 - 5 - 0	T	15	yes	yes	prof. Ing. Marián Drusa, PhD.
2	L	4DPD401	Teaching activities	TA	0 - 4 - 0	V	2	-	-	prof. Ing. Peter Koteš, PhD.
2	L	4DPD402	Scientific activity	SA	0 - 6 - 0	V	12	yes	yes	prof. Ing. Pavol Ďurica, CSc.
2	L	4DPD403	Publishing activity	PubČ	0 - 4 - 0	V	10	yes	yes	doc. Ing. Radoslav Ponechal, PhD.
2	L	4DPD404	Doctoral dissertation	DDi	0 - 6 - 0	V	6	yes	yes	prof. Ing. Pavol Ďurica, CSc.
3	Z	4DPD501	Scientific activity	SA	0 - 6 - 0	V	12	yes	yes	prof. Ing. Pavol Ďurica, CSc.
3	Z	4DPD502	Publishing activity	PubČ	0 - 4 - 0	V	8	yes	yes	doc. Ing. Radoslav Ponechal, PhD.
3	Z	4DPD503	Doctoral dissertation	DDi	0 - 5 - 0	V	10	yes	yes	prof. Ing. Pavol Ďurica, CSc.
3	L	4DPD601	Dissertation and its defense	DiDe	0 - 15 - 0	T	30	yes	yes	prof. Ing. Marián Drusa, PhD.

Compulsory optional courses

Grd.	Sem.	Course	Name	Short.	Hours	End	Credits	Profile	Core	Guarantor
1	L	4D0D206	Mathematical-computer Simulation	MCS	2 - 0 - 0	S	5	-	-	doc. Ing. Juraj Mužík, PhD.
1	L	4D0D207	Selected Chapters from Geomechanics	SChG	2 - 0 - 0	S	5	yes	-	prof. Ing. Marián Drusa, PhD.
1	L	4D0D211	Urban Engineering	UE	2 - 0 - 0	S	5	-	-	prof. Ing. Martin Decký, Dr.
1	L	4D0D214	Steel Structures	SS	2 - 0 - 0	S	5	yes	-	prof. Ing. Josef Vičan, CSc.
1	L	4D0D216	Concrete and Masonry Structures	CaMS	2 - 0 - 0	S	5	yes	-	prof. Ing. Peter Koteš, PhD.
1	L	4DPD208	Environmental Design and Assessment of Buildings	EDaAB	2 - 0 - 0	S	5	yes	yes	doc. Ing. Agnes Iringová, PhD.
1	L	4DPD209	Thermal Protection of Buildings	TPB	2 - 0 - 0	S	5	-	yes	doc. Ing. Agnes Iringová, PhD.
1	L	4DPD210	Building and Environment Simulation	SBaP	2 - 0 - 0	S	5	-	yes	doc. Ing. Radoslav Ponechal, PhD.

Optional courses

Grd.	Sem.	Course	Name	Short.	Hours	End	Credits	Profile	Core	Guarantor

6. Current academic year plan and current schedule

Current academic year plan

Academic calendar
The current schedule of the academic year can be found at: https://www.uniza.sk/images/pdf/preco-studovat-na-uniza/08032022_ramcovy-harmonogram-2022_2023.pdf

6. Current academic year plan and current schedule

Faculty of Civil Engineering specific information regardless of the academic calendar and schedule is available at: https://svf.uniza.sk/index.php/studenti/vseobecne-informacie2/akademicky-kalendar

e-learning portal of UNIZA is available at: https://vzdelavanie.uniza.sk/

Current schedule

Current schedules of all study programmes are accessible at: https://vzdelavanie.uniza.sk/vzdelavanie/rozvrh2.php

7. Persons responsible for the study programme

a **A person responsible for the delivery, development, and quality of the study programme (indicating the position and contact details)**

Guarantor of the study program: Marián Drusa, prof. Ing. PhD.

b - c **List of persons responsible for the profile courses of the study programme**

Contents is generated from Study plans.

Name, surname, titles	Course	Name
prof. Ing. Marián Drusa, PhD.	4D0D106	Methodology of scientific work
prof. Ing. Marián Drusa, PhD.	4D0D207	Selected Chapters from Geomechanics
prof. Ing. Pavol Ďurica, CSc.	4DPD204	Selected Chapters from Structures of Buildings
doc. Ing. Agnes Iringová, PhD.	4DPD208	Environmental Design and Assessment of Buildings
prof. Ing. Peter Koteš, PhD.	4D0D216	Concrete and Masonry Structures
prof. Ing. Josef Vičan, CSc.	4D0D214	Steel Structures

d **List of teachers of the study programme (including doctoral students) with the assignment to the course**

Contents is generated from Study plans.

Name, surname, titles	Org.form	Course	Name
prof. RNDr. Peter Bury, CSc.	Lecture	4D0D102	Applied physics
prof. Ing. Martin Decký, Dr.	Lecture	4D0D211	Urban Engineering
prof. Ing. Marián Drusa, PhD.	Lecture, Seminar	4D0D106	Methodology of scientific work
prof. Ing. Marián Drusa, PhD.	Lecture	4D0D207	Selected Chapters from Geomechanics
prof. Ing. Pavol Ďurica, CSc.	Lecture	4DPD204	Selected Chapters from Structures of Buildings
doc. Ing. Agnes Iringová, PhD.	Lecture	4DPD208	Environmental Design and Assessment of Buildings
prof. Ing. Peter Koteš, PhD.	Lecture	4D0D216	Concrete and Masonry Structures
prof. RNDr. Jozef Kúdelčík, PhD.	Lecture	4D0D102	Applied physics
doc. Ing. Mária Kúdelčíková, PhD.	Lecture	4D0D101	Applied mathematics
PaedDr. Lenka Môcová, PhD.	Seminar	4D0D107	Foreing language EN
doc. Ing. Juraj Mužík, PhD.	Lecture	4D0D206	Mathematical-computer Simulation
prof. Ing. Josef Vičan, CSc.	Lecture	4D0D214	Steel Structures

e - f **List of the supervisors of final theses with the assignment to topics**

List of the supervisors of final theses with the assignment to topics

g **Student representatives representing the interests of students of the study programme**

- Ing. Marek Bartko,
- Ing. Marek Chabada.

h **Study advisor of the study programme**

Study advisor of the study programme
As this is a doctoral study, the doctoral student's study advisor is their supervisor.

i **Other supporting staff of the study programme - assigned study officer, career counsellor, administration, accommodation department, etc.**

Doctoral study department: Ing. Andrea Husáriková - https://svf.uniza.sk/index.php/fakulta/pracoviska-fakulty/dekanat

7. Persons responsible for the study programme

International Mobility Officer, study abroad (Erasmus+): Mgr. Zuzana Pudiková - https://www.uniza.sk/index.php/erasmus-kontakty

Career advisor: Ing. Lucia Nesselmannová. https://www.uniza.sk/index.php/studenti/prakticke-informacie/poradenske-a-karierne-centrum-uniza

Accommodation facility UZ Veľký Diel: Jozef Lacek (riaditeľ UZ Veľký Diel) https://vd.internaty.sk/

Accommodation faciliity UZ Hliny V: Ing. Miroslav Stromček (riaditeľ UZ Hliny V) http://hliny.internaty.sk/?i=ubytovanie

8. Spatial, material, and technical provision of the study programme and support

a List and characteristics of the study programme classrooms and their technical equipment with the assignment to learning outcomes and courses (laboratories, design and art studios, studios, workshops, interpreting booths, clinics, priest seminaries, science and technology parks, technology incubators, school enterprises, practice centres, training schools, classroom-training facilities, sports halls, swimming pools, sports grounds).

Directive No. 217 Resources to Support Educational, Creative and Other Related Activities of the University of Žilina provides detailed information about possible support during the education process.

The purpose of this directive is to define the resources of the University of Žilina, which are used in the implementation of accredited study programmes and creative activities with regard to ensuring their maximum effectiveness, efficiency, economy, accessibility and renewal in accordance with the internal quality system of education. Resources are divided into - financial, spatial, material, technical, personnel, information and support infrastructures. At UNIZA, university-wide classrooms are available for educational activities, and individual faculties have additional classrooms in which the faculties organise their teaching as part of their educational activities and accredited study programmes.

All available classrooms are listed at: https://vzdelavanie.uniza.sk/vzdelavanie/download/doc/UNIZA-ucebne-nazvy.pdf.

Information on the availability and usability of these classrooms for students with special needs can be found at: https://vzdelavanie.uniza.sk/vzdelavanie/rozvrh2.php.

University-wide classrooms are used for teaching mainly subjects of the theoretical basis and general focus for individual faculties. These are lecture halls with a capacity of 110-150 seats, as well as smaller classrooms with a capacity of 24-60 seats for exercises, and seminars, but also lectures for smaller groups of students.

Virtual tours of university-wide classrooms can be explored at: https://www.uniza.sk/index.php/verejnost/uniza-v-obrazoch/virtualna-prehliadka

The scheduling department is in charge of assigning these classrooms to specific studying programmes and subjects according to the student numbers and the requirements of their respective faculties/departments.

Faculty classrooms are assigned to the study programme by the Council of the Study Programme, or The Board of Guarantors of the Faculty of Civil Engineering (FCE UNIZA) and the decisions are approved by the Board of the Dean of the FCE. Departments claim these classrooms when entering the teaching schedule for the relevant academic year into the system in accordance with the study plans of the relevant study programmes.

The following faculty classrooms and laboratories are set aside for the needs of the TaSoB study programme:

- standard equipment - AE102, AE103, AE013, AE202, AE203, AE303,
- above standard equipped (special software) - AC012, AC106, AC205,
- laboratory classrooms and laboratories - AD019, AF 016, BJ035,
- laboratories with special equipment - AE013, BJ037, BJ040,
- heavy laboratories - BJ025.

The standard equipment of classrooms is comprised of a computer, data projector, whiteboard, wifi, LAN connection. All classrooms are suitable for disabled students.

Material and technical equipment of laboratories and laboratory classrooms is listed at: https://svf.uniza.sk/flexpapers/SvF-Brochure-2020/#page=1

In addition, **FCE has virtual tours of laboratories with a description of the material and technical equipment** available at: http://priestory.uniza.sk/svf/

FCE UNIZA is equipped with devices and equipment that enable students, in cooperation with teachers and researchers, to acquire professional knowledge from the entire spectrum of activities of the field of study during the processing of bachelor's, master's and doctoral theses. In the laboratories of the departments and in the Testing Laboratory of the FCE, UNIZA (accredited by Slovak National Accreditation Service - SNAS), the instrumental equipment corresponds in close connection to the scientific research profiles of the departments. All laboratories of the departments are accessible to students; they are regularly used for lectures and practical training and are also available to doctoral students during the processing of doctoral theses.

The three main departments of the study programme are equipped with the following technology:

- **Department of Building Engineering and Urban Planning (KPSU)**, FCE UNIZA, currently has four operated research components:
  - Laboratory centre of KPSU focuses on portable laboratory and instrumental technology, including portable temperature, humidity and material measurement devices (Testo, Greinsinger, Hivus), portable anemometer (Fluke), Fluke thermal imaging cameras, ultrasonic 3D tomography device, digital biological microscope DM4, standalone experimental meteorological station, measuring instrument ISOMET model 2104, 2250-S Portable sound analyzer.
  - Pavilion-type laboratory in the BJ 3 building, which contains three air-conditioned rooms for simulating the indoor climate. These are three chambers that are isolated from the outside environment and the interior. The climate conditions (constant

8. Spatial, material, and technical provision of the study programme and support

temperature and relative humidity) are maintained inside the chambers. In the outer (peripheral) wall with known thermal technical properties, three top windows of standard dimensions are currently installed in one chamber, designed for low-energy and passive construction of the building. In the second and third rooms, the experimental outer shells of the building with an area of 10 m2 are in contact with the external environment, composed of several types of light sandwich shells with different thermal and diffusion properties. The samples are therefore exposed to the real effects of the outdoor climate, and thus it is possible to analyse their heat-humidity and energy balance in the annual run with their own measuring apparatus. There is a weather station on the roof of the building, which records the outdoor climate and therefore it is possible to accurately analyse the behaviour of built-in structures in relation to the outdoor environment.
o A system of climatic chambers for simulating the indoor climate and the outdoor climate, which houses exposed samples of envelope structures with the possibility of measuring the effects of wind-driven rain, temperature difference, air filtration and UV radiation. The chamber assemblies are flexible and allow measurements when changing temperatures and humidity, and allow simulating solar radiation with infrared lamps, airflow, air overpressure, wind-driven rain and acid rain.

With the exception of the first laboratory, the other two are a part of the UNIZA Research Center. At the same time, "**Direct research on the envelope structures of intelligent buildings**" of the research centre is carried out, where 36 measuring points with sensors mapping the building's external climatic conditions with the possibility of correcting its energy systems are installed directly on the façade of the building.
The software catalogue of the department includes programmes in the field of building physics and energy simulations (ESP-r, WUFI, WUFI 2D and WUFI Pro, Physibel, Design Builder, Comsol, ANSYS, etc.).

The Department of Geotechnics (KGt), FCE UNIZA, has a laboratory in building BJ where basic programmes of soil and rock mechanics tests and some special geotechnical tests to determine filtration and technological properties are performed. The heavy laboratory BI houses unique large-scale equipment for shear and deformation tests suitable for testing shear parameters of materials for earth structures reinforced with geosynthetics and a unique mobile device - static penetration set PAGANI TG 63-200 for testing the properties of foundation soils.
The Department of Structures and Bridges (KSKM) has the necessary equipment for research into the resistance of load-bearing structural elements (hydraulic pulsator and breaking track, ALPHA press, MATEST press, etc.) in the heavy laboratory of the BI building. There's also equipment for monitoring stresses and deformations in experimental behavioural analyses of load-bearing elements under dynamic and static loads. A data acquisition system SPIDER 8 for sensing deformations of building structures and bridges with applications in laboratory conditions as well as in situ is also at one's disposal. The department's instrumental equipment includes a SONAGAG ultrasonic thickness gauge, a PUNDIT ultrasonic device, a DYNAMETER tear test device, a PROFOMETER 5 rebar detector device, a EQUOTIP hardness and subsequent strength tester, a reinforcement corrosion analyser, etc.

Further information on the allocation, use, monitoring and decommissioning of spatial, material and technical resources are described in Directive No. 217 (Articles 7-14).

Characteristics of the study programme information management (access to study literature according to Course information sheets, access to information databases and other information sources, information technologies, etc.)

The information necessary for the effective management of study programmes at UNIZA can be found in the UNIZA Academic Information and Education System (AIVS). Details of the sources of information in this area are defined in Directive No. 217 **Resources to Support Educational, Creative and Other Related Activities of the University of Žilina** and in Directive No. 218 **On the Collection, Processing, Analysis and Evaluation of Information to Support the Management of Study Programmes**.

The scheduling department, in cooperation with the relevant study departments of the faculties and the Center for Information and Communication Technologies (CeIKT), using information systems, collects the data about available premises and takes inventory of technology used in study programmes. Objects that are also accessible to students and employees with disabilities are specially marked in the system. Relevant sources of information for applicants and students are information on faculty-specific study programmes as well as information on university-wide study programmes.

b

Essential information about the study, including study programmes, instructions for the admission procedure, graduation, etc. are a part of UNIZA's internal regulations. Access to these documents is available on the UNIZA website at https://uniza.sk/ in the Applicants section. Detailed information on the study programmes is located on the faculty website with the option to use the links on the main page. Information on currently provided full-time study programmes in the relevant academic year is always available on the Study Programmes website at https://www.uniza.sk/index.php/en/study/study-options/programmes-2022-2023.

Access to study literature is provided by the UNIZA University Library (UK) http://ukzu.uniza.sk/ - see also Art. 17 of Directive No. 217 **Resources to Support Educational, Creative and Other Related Activities of the University of Žilina.**

Access to the compulsory literature listed in the Information Sheet (available in the E-learning system) of the relevant subject is available in the UK, either directly or through its sub-libraries at the relevant departments, depending on the type and form of literature and study materials. Most of the newer titles published by the **Publishing House of the University of Žilina (EDIS)** are also available in the EDIS university shop.

Another often used form is the distribution of study materials needed for the processing of specific tasks **directly by the relevant teachers** unless it is freely available material (these are mainly presentations from lectures, some sample solutions, excerpts from technical standards and various illustrative examples). These materials are most often shared either in the LMS Moodle learning platform, through shared materials in MS-Teams, or by e-mail, rarely and only in exceptional cases in the form of physical copies or prints.

c **Characteristics and extent of distance education applied in the study programme with the assignment to courses. Access, manuals of e-learning portals. Procedures for the transition from contact teaching to distance learning**

The main core of distance education and study review at FCE UNIZA is e-education, built on the basis of LMS Moodle. The organisation of the courses is based on a guided study with the support of information and communication technologies in close connection with AIVS.

E-learning has been in use at the university since the academic year 2004/2005.

In recent months, due to the pandemic situation, MS Teams has been used for the needs of online lectures and exercises. Instructions from CeIKT are available for this form of pedagogical process at the following links:

8. Spatial, material, and technical provision of the study programme and support

https://ikt.uniza.sk/uniza-wiki/microsoft-teams-informacie/

https://ikt.uniza.sk/uniza-wiki/vzdelavacie-skupiny/

d

Institution partners in providing educational activities for the study programme and the characteristics of their participation

SKSI (The Slovak Chamber of Civil Engineers) - authority from practice, participates in the creation of the study plan and authorisation of graduates for the conduct of authorised professions and professional qualifications,
PROMA, s.r.o. Žilina - BIM lectures,
DREVODOM Orava, Kontrakting Žilina, Isover, Bramac, Wienerberger - provision of professional practice, selected lectures, instructional videos,
PEIKKO Slovakia s.r.o. (Kráľová nad Váhom + Žilina) - selected lectures, excursions, involvement of students in research,
STAVOKOV Projekt s.r.o. (Trenčín) - selected lectures, excursions
SCIA SK s.r.o. (Žilina) - multi-day trainings (lectures),
IDEA StatiCa s.r.o. (Brno - CZ) - selected trainings (lectures),
Cihelna Štěrboholy (CZ) - samples for students, lectures for students,
Xenex s.r.o. - selected lectures, videos, employer of graduates,
Váhostav, a.s. - selected lectures, videos, excursions to construction sites, employer of graduates,
Eurovia, a.s. - selected lectures, videos, construction excursions, employer of graduates.

e

Characteristics of the possibilities for social, sports, cultural, spiritual and social activities

At the university level, the possibilities of social, sports, cultural, spiritual and social activities are described in Directive No. 217 **Resources to Support Educational, Creative and Other Related Activities of the University of Žilina** - especially in the Articles 17, 18 and 19.
UNIZA creates conditions and supports students' sports and cultural activities through various clubs and the university pastoral centre, while also creating conditions and supporting other student activities, especially the activities of student organisations and student associations that operate at UNIZA as their activities are in the interest of students.

The creation of these organisations and associations is governed by the procedures laid out in Directive No. 123 **Modification of the Basic Principles in the Creation of Groups of Students and Staff on the Premises of the University of Žilina** with the approval of the UNIZA Rector granting consent to the establishment of student organisations/clubs/associations based on the opinion of a three-member commission headed by the Vice-Rector for Education.

These organisations are governed by statutes approved by the Rector. The leaders of their organisations are responsible for the activities of these organisations. List of student organisations/clubs/associations operating in UNIZA:
a. GAMA club,
b. Council of accommodated students of Veľký Diel,
c. Council of accommodated students of Hliny,
d. Internet club,
e. Í-Tečko,
f. Railway Friends Club,
g. Rapeš,
h. Radio X,
i. Erasmus Student Network (ESN),
j. UNIZA University Firefighting Club

At the same time, the Stavbár Folklore Ensemble and the University Pastoral Center, a facility for **the church and religious society,** also operate at UNIZA.

Students of the Faculty of Civil Engineering can take advantage of the opportunities for social, sports, cultural, spiritual and social activities offered by UNIZA. More information about the focus of individual organisations is available at: https://www.uniza.sk/index.php/studenti/studentsky-zivot/studentske-organizacie

Sports activities for UNIZA students and employees are provided by the UNIZA Institute of Physical Education (hereinafter "ÚTV") as a university-wide institute with the aim of developing a programme of physical activities for UNIZA students and employees.

More information regarding sports activities is available at: https://utv.uniza.sk/

f

Possibilities and conditions for participation of the study programme students in mobilities and internships, application instructions, rules for recognition of this education

Possibilities and conditions for the participation of the study programme students in mobilities and internships, application instructions, rules for recognition of this education
At the university level, the processes, procedures and structures regarding mobility are defined by Directive No. 219 **Mobility Programmes of the UNIZA Students and Staff Abroad** and the university's website.

At the faculty level, these activities are in the portfolio of the Vice-Dean for Development and International Relations, and detailed information can also be found on the faculty website.

Contact person: Assoc. prof. Ing. Petra Bujňáková, PhD., petra.bujnakova@uniza.sk

Assistant for International Studies and International Mobility, including Erasmus+: Mgr. Lenka Kalúsová, lenka.kalusova@uniza.sk.

9. Required abilities and admission requirements for the study programme applicants

Required abilities and necessary admission requirements

a

Admission requirements are detailed in Directive No. 206 **Principles and Rules of the Admission Procedure at the University of Žilina.**

Faculties and other units also guarantee, through adherence and application of the principles and rules of the admission procedure for studies at UNIZA, that:

a. the admission procedure is reliable, fair and transparent,
b. the conditions of the admission procedure are inclusive and guarantee equal opportunities for each candidate who demonstrates the necessary prerequisites for admission,
c. the selection of applicants is based on appropriate methods for assessing their eligibility for the study,
d. the criteria and requirements for applicants are published in advance and are easily accessible.
e. Pursuant to Act 131/2002 on Higher Education Institutions and on Changes and Supplements to Some Acts, the basic condition for admission to doctoral studies is second-degree university education. In the case of foreign applicants or students who have completed their studies abroad, they shall submit along with the application for university study, at the latest as the enrolment date, a decision on recognition of the diploma of second degree higher education by the relevant institution in the Slovak Republic, or in others words, they shall ask UNIZA for recognition of the diploma.

Other conditions for admission to study are determined by the faculty:
The selection of candidates is based on the evaluation of the entrance exam. The entrance exam is conducted as an oral discussion before the commission of the TaSoB study programme, the content of which is to check the knowledge of the foreign language, mathematics and professional and scientific orientation of the candidate in the field for which they are applying, including the reasons for choosing the topic, methods in addressing the topic, as well as the expected conclusions of their work. The evaluation includes an assessment of the results of their previous studies and prerequisites for the applicant's independent scientific work.

Admission procedures

b

At the university level, doctoral studies are governed by the rules defined in Directive No. 110 **Study Regulations for the Third Degree of University Studies at the University of Žilina** and Directive No. 216 **Quality Assurance of the Doctoral Degree Studies at the University of Žilina.**

The rules, procedures and structures for admission to the 3rd level of higher education are defined by Directive No. 206 **Principles and Rules of the Admission Procedure at the University of Žilina.**

Applicants for the TaSoB study programme apply for dissertation topics made public by the FCE and published on the official bulletin board or the university website. The topics of dissertations are discussed in the Joint Commission and then subsequently approved by the Joint Commission and the Dean of the FCE, which announces them no later than two months before the last day for submitting applications for doctoral studies. For each topic, the name of the study programme, the name of the supervisor, the form of study (full-time, part-time), the deadline for submitting applications and the date of the admission procedure are given.

The entrance examination takes place in front of an admissions committee composed of at least four members. The Admissions Committee consists of its chairman and at least two members appointed by the Dean. Another member of the commission is the supervisor for the listed topic. The Admissions Committee evaluates the result of the entrance examination in a closed session with the conclusion of "passed" or "failed". If more than one candidate has applied for one topic, they determine their order according to the success of the entrance examination. In determining the order, the commission also takes into account the scope and quality of the applicant's previous professional publishing activities and the results of their other professional activities.
Based on the results of the entrance examination, the Dean decides on the admission of the candidate within 30 days from the date of the entrance examination. If the decision is in favour of the applicant, the Dean shall also state the name of the supervisor and the topic of the dissertation in their decision. The written decision must also contain a statement, justification, and instructions on the possibility of submitting a request for review of the decision and be delivered to the addressee only.
.
"Principles and rules of the admission procedure for doctoral studies at the FCE UNIZA UNIZA":https://svf.uniza.sk/subory/Okt%C3%B3ber_2024/2024_Zasady_prijimacieho_konania_2025_2026_PhD.pdf
https://svf.uniza.sk/index.php/component/content/article/2-uncategorised/2921-informacie-o-moznosti-studia-pre-akademicky-rok-2026-2027?Itemid=2921

Results of the admission process over the last period

c

"Evaluation reports on the level of educational activities at FCE UNIZA" and Annual reports of FCE UNIZA:
https://svf.uniza.sk/index.php/fakulta/vseobecne-informacie/uradna-tabula
https://uniza.sk/index.php/hodnotiace-spravy-svf

10. Feedback on the quality of provided education

a

Procedures for monitoring and evaluating students' opinions on the study programme quality

At the UNIZA level, for the need of monitoring and evaluation of students' opinions on the quality of the study programme, Directive No. 223 **Monitoring and Periodic Review of the Study Programmes** defines the procedures that are used for the purposes of evaluation.

The process of monitoring and periodic evaluation of study programmes takes place at UNIZA at three levels:

a. at the level of the Board of the Study Programme;
b. at the level of UNIZA faculties and institutes;
c. at the level of the UNIZA Accreditation Board.

The following participate in the monitoring and periodic evaluation of the environment:

10. Feedback on the quality of provided education

(a) internal stakeholders:
- UNIZA students through feedback on the subjects and annual study programme feedback;
- teachers through regular annual evaluation of subjects and feedback mapping their perception of the teaching process on a three-year basis;

(b) external stakeholders:
- UNIZA alumni through feedback monitoring their entry into the labour market and adaptation to employment carried out on a three-year basis;
- employers through feedback mapping the readiness of graduates for working in the field carried out on a three-year basis.

FCE UNIZA obtains data for monitoring quantitative and qualitative indicators of **the quality of the study programme through**:

a. data collection from information systems for the collection and processing of information from education at UNIZA (AIVS, IS admission procedure, PowerBI, IS Sofia – SAP HR, etc.),
b. direct measurements describing student performance, which provides direct evidence of both the education and learning process; direct evidence is the output of education - passing tests and examinations, progress mapping - score (number of points) before and after measurement (testing), performance evaluation in relation to the subject of study (presentations, discussions, etc.), evaluation of final / dissertation theses, etc.;
c. indirect measurements monitoring stakeholders' perceptions of learning, learning experiences, levels of satisfaction, attitudes, links to learning outcomes and practical needs (student surveys, including questionnaires assessing subjects, focus groups, surveys of university teachers, graduates and employers, external control processes).

The process of collecting data from information systems takes place in cooperation with the Vice-Dean for Research, the guarantor of the study programme and the department for doctoral studies with the support of CeIKT. The process of preparation, implementation and statistical processing of direct measurements describing the performance of students is the responsibility of individual teachers in coordination with the guarantors of study programmes. The process of preparing and exporting data from indirect measurements capturing the perception of education by stakeholders is coordinated at the level of the UNIZA Science and Research Department. The person responsible for communication with stakeholders for the needs of monitoring and periodic evaluation is the guarantor of the study programme in coordination with the dean of the faculty.

The person responsible for monitoring the faculty is the Vice-Dean for Research in coordination with the dean of the faculty. The person responsible for the periodic evaluation of study programmes at the level of the Study Programme Council is the guarantor of the study programme, and at the faculty level, it is the Dean.

Monitoring the perception of education by stakeholders is carried out mainly through questionnaires.

b **Results of student feedback and related measures to improve the study programme quality**

Feedback at the level of the study programme is obtained through regular anonymous questionnaires designed for students graduating from all levels of education. They are used to map the entire study programme. The general set of questions consists of items organised into these topics at least:
a. Content of education (fulfilment of set outcomes of studying programmes, interconnection of subjects, identification of possible duplications, etc.);
b. Organisation of education (workload, involvement in the life of the faculty, solving professional tasks at the faculty/department/ workplace, degree of internationalisation, internships and compulsory internships, etc.);
c. Access to counselling and other services during the study;
d. Administration and support in the process of preparing a bachelor's, master's or dissertation thesis.

Feedback on individual subjects is obtained during the semester through a regular anonymous questionnaire designed for all students at all levels of education. It maps the educational process to the level of the teacher/subject, the teacher's approach, the possibility of achieving the learning outcomes and their connection with the methods of teaching and assessment, and the specifics of the subject.

At the level of study programmes, the guarantor of the study programme analyses the feedback obtained identifies opportunities and suggestions for further strengthening the positives and offers suggestions for eliminating identified weaknesses and possible risks.

The results of the feedback on the implemented education and the identified opportunities for improvement are subsequently analysed, and evaluated and are the basis for the creation of the Report on the Evaluation of the Study Programme within the periodic evaluation of the study programme by the Board of the Study Programme.

The key findings and results obtained from surveys and feedback from students are then published on the website of the Faculty of Civil Engineering, UNIZA (in the section Surveys), where they are available to all members of the academic community and the public.

c **Results of graduate feedback and related measures to improve the study programme quality**

Feedback from graduates of study programmes maps the effect and impact of completed higher education at the appropriate level. The anonymous questionnaire is intended for all graduates who completed their studies in a given study programme in the last three years.
The general set of questions consists of items organised into at least the following topics:
a. sphere of application,
b. transition to employment,
c. relevance of studies in relation to employment, subject composition, comparison of knowledge, skills and competencies acquired through studies and required in practice, and need for further education.

Alumni are contacted by the Board of the Study Programme in cooperation with the dean of the faculty to fill in the questionnaire. The request also includes information on the place of publication of previous monitoring and periodic evaluation results.

The guarantor of the study programme and senior staff analyse the data from the relevant parts of the feedback obtained, identify opportunities and suggestions for strengthening the positive, eliminate identified weaknesses and possible risks, and propose measures to improve the quality of education.

The key findings and results obtained from surveys and feedback from graduates are then published on the website of the Faculty of

10. Feedback on the quality of provided education

Civil Engineering, UNIZA, where they are available to all members of the academic community and the public.

The results of the feedback on the implemented education and the identified opportunities for improvement are subsequently analysed, and evaluated by the Board of the Study Programme, and are the basis for the preparation of the Report on the Evaluation of the Study Programme within the periodic evaluation of the study programme by the Board of the Study Programme.

11. References to other relevant internal regulations and information concerning the study or the study programme student (e.g study guide, accommodation regulations, fee directive, guidelines for student loans, etc.)

Description / Info	Link
Relevant internal regulations of UNIZA	https://www.uniza.sk/index.php/univerzita/vseobecne-informacie/uradna-tabula
Internal regulations of ISQ UNIZA	https://uniza.sk/index.php?option=com_content&view=article&id=4131:smernice-pre-vnutorny-system-kvality-uniza-2&catid=2

Signature: Date: 28 February 2026