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: Univerzitna 8215/1, 010 26 Žilina
Identification number of the higher education institution:
Name of the faculty: **Faculty of Civil Engineering**
Address of the faculty: Univerzitna 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**	Construction Management	**Number according to the register of study programmes**	103624
b	**Degree of higher education**	3	**ISCED-F education degree code**	864
c	**Place(s) of delivery of the study programme**			
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	864/V/
e	**Type of the study programme**	academically oriented		
f	**Awarded academic degree**	philosophaie doctor - PhD		
g	**Form of study**	external		
h	**Cooperating institutions and the range of study obligations the student fulfils at each of the given institutions**	we do not cooperate with another university in this study program		
i	**Language or languages in which the study programme is delivered**	English		
j	**Standard length of the study expressed in academic years**	4 years		
k	**Capacity of the study programme (planned number of students)** **Actual number of applicants** **Actual number of students**	1. grade: 3 2. grade: 3 3. grade: 3 4.grade: 3 The new study program		

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 It is based on the requirements of a specialist in the field of construction management and technology, which is focused on the complexity of the solution using the latest knowledge of science, research and practice in the field of construction. He masters the scientific methods of research and development, can independently solve serious scientific problems of selected research topic and professional practice and is able to apply the principles of transfer of knowledge of science and research into practice.

[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

The graduate of the doctoral study is a highly qualified expert in the field of construction with a main focus on technology theory and construction management. He is able to manage the preparation and implementation of large investment projects, manage construction processes based on the latest technologies and management systems.
Can prepare and assess a feasibility study, including economic revenue analyzes. He is able to manage the management of engineering and transport infrastructure in particular, including the application of decision optimization methods. He masters scientific research methods and is able to creatively apply existing methods and theories in the field.
He is able to apply the theoretical knowledge gained by studying the methodology of scientific work in the preparation and implementation of a scientific experiment. He is able to carry out research activities with regard to the ethical and social aspects of scientific activities and their contribution to practice. He masters progressive methods of mathematical-computer simulations on the basis of which he optimizes the construction technology design system. The graduate is able to design maintenance optimization using knowledge from diagnostics and probability theory, repairs and reconstructions of buildings. He is able to optimize technological processes in relation to the life cycle of buildings, their life and environmental aspects. The graduate is able to apply knowledge to increase the reliability and safety of traffic construction. The graduate masters the principles and principles of scientific work, ethical and social aspects of scientific work, presentation of results, development of the field of study and contribution to practice. The graduate is able to independently solve research problems, cooperate with foreign countries and use foreign professional literature.

Learning objectives

The aim of the study is to ensure the requirements and expectations that the graduate is competent and able to perform top management positions in the preparation, construction and operation of buildings, including the competence to perform scientific, research and development activities.
[CV 1] - to provide students after successful completion of engineering studies the opportunity to study at the third level in the field of theory and implementation of construction technologies and construction management
[CV 2] - acquisition of competencies and transferable knowledge in the field of project and investment preparation management, including the competence to develop and assess investment projects in terms of their life cycle.
[CV 3] - professional knowledge and skills of construction production management based on optimization processes and quality control management systems
[CV 4] - acquisition of cognitive competencies in the field of development and implementation of construction technologies, including their energy and economic assessment
[CV 5] - the ability to carry out an assessment of construction works in terms of environmental impact and economic efficiency
[CV 6] - ability to perform top management positions in the management of transport infrastructure management based on asset management systems
[CV 7] - knowledge, application, implementation and development of GIS and BIM information systems, especially in project activities, economics and management of buildings and infrastructure.
[CV 8] - Ability and competences to carry out scientific research activities in the field of technological theory, construction management and infrastructure operation.

Learning outcomes

[VV1] - preparation of investment projects
The graduate is able to develop a project part of investment preparation of projects - feasibility studies and investment plans, including an assessment of the economic efficiency of the project
[VV2] - investment project management
Ability to manage the management of large investment projects using modern system methods and information systems
[VV3] - optimization of construction production processes
Competences in the preparation and management of construction processes based on optimal time schedules and control system
[VV4] - design of the most modern construction technologies
Ability to design and implement modern construction process technologies, including their assessment in terms of environmental and energy burden
[VV5] - information systems
Competences in the implementation and use of current information systems GIS, BIM and databases in the management and administration of engineering infrastructure
[VV6] - quality assessment
Ability to perform quality control of building materials and processes on the basis of modern diagnostic and experimental methods
[VV7] - infrastructure operation
Ability to manage civil engineering and transport infrastructure based on asset management systems
[VV8] - scientific methods of work
Competences performing scientific and research activities, including the use of methods of scientific work in the design of technology and management of construction work

b 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

Indicated occupations for graduates of the study program are defined as highly qualified top management positions, which are currently not defined in the systems of qualifications and employment. These are mainly the following professions.

Investment project management specialist
Specialist in the preparation and management of construction technologies and construction processes
Specialist, researcher in the management of construction operations and transport infrastructure management systems

The investment project management specialist is able to develop a project proposal in its entire complex, i. carry out a feasibility study, ensure investment preparation and carry out the project. Within the whole complex of project preparation and implementation, it can ensure its assessment in terms of environmental impact, economic assessment of its effectiveness through revenue analyzes and requirements in terms of land use planning and construction proceedings.

The specialist of preparation and management of construction technologies and construction processes carries out project documentation of the construction organization plan based on the use of new progressive materials with low energy intensity, time schedules of technological processes developed on the basis of optimization methods.

The specialist, researcher of construction management and transport infrastructure management systems performs activities related to

2. Graduate profile and learning objectives

diagnostics of parameters of evaluation of operational reliability and operational performance of transport infrastructure and design of construction interventions on the basis of optimization calculations and
economic efficiency. Performs research in deriving the degradation functions of variable parameters, designing modern technological processes and defining optimization decision-making methods for maintenance planning and modernization of building modifications.

The potential of the program in terms of employment

The graduate can perform jobs within consulting companies as a project preparation manager, investment preparation manager and project implementation manager. At the same time, he can work as the chief analyst of controlling and quality systems. He has a job as a research leader
worker within the road database system and transport infrastructure management systems.

Relevant external stakeholders who have provided the statement or a favourable opinion on the compliance of the

c

SKSI -
Bratislava VUD

3. Employability

Evaluation of the study programme graduates employability

Graduates of the TMS study program are employed in top managerial positions on the basis of the completed study program in particular the areas of investment project management, project preparation preparation, construction and quality management, administration performance management in the field of transport infrastructure, civil engineering and building construction. They are used in research companies, including within business sector. They use the capabilities of scientific management methods, including GIS information systems, building modeling and decision-making optimization systems.

a Graduates work mainly in:
- companies carrying out research and development in the field of investment projects
- management companies of transport and civil engineering
- construction companies
- companies performing construction production management and construction budgeting
- in educational institutions
- in expert and expert assessment activities

Based on individual surveys conducted over the remaining years, the employment of doctoral graduates is 100%.

Successful graduates of the study programme

b Ing. Jaroslav Leštach, PhD - construction manager

Evaluation of the study programme quality by employers (feedback)

c SKSI Bratislava
VUD a.s. Žilina

4. Structure and content of the study programme

Rules for the design of study plans within the study programme

a

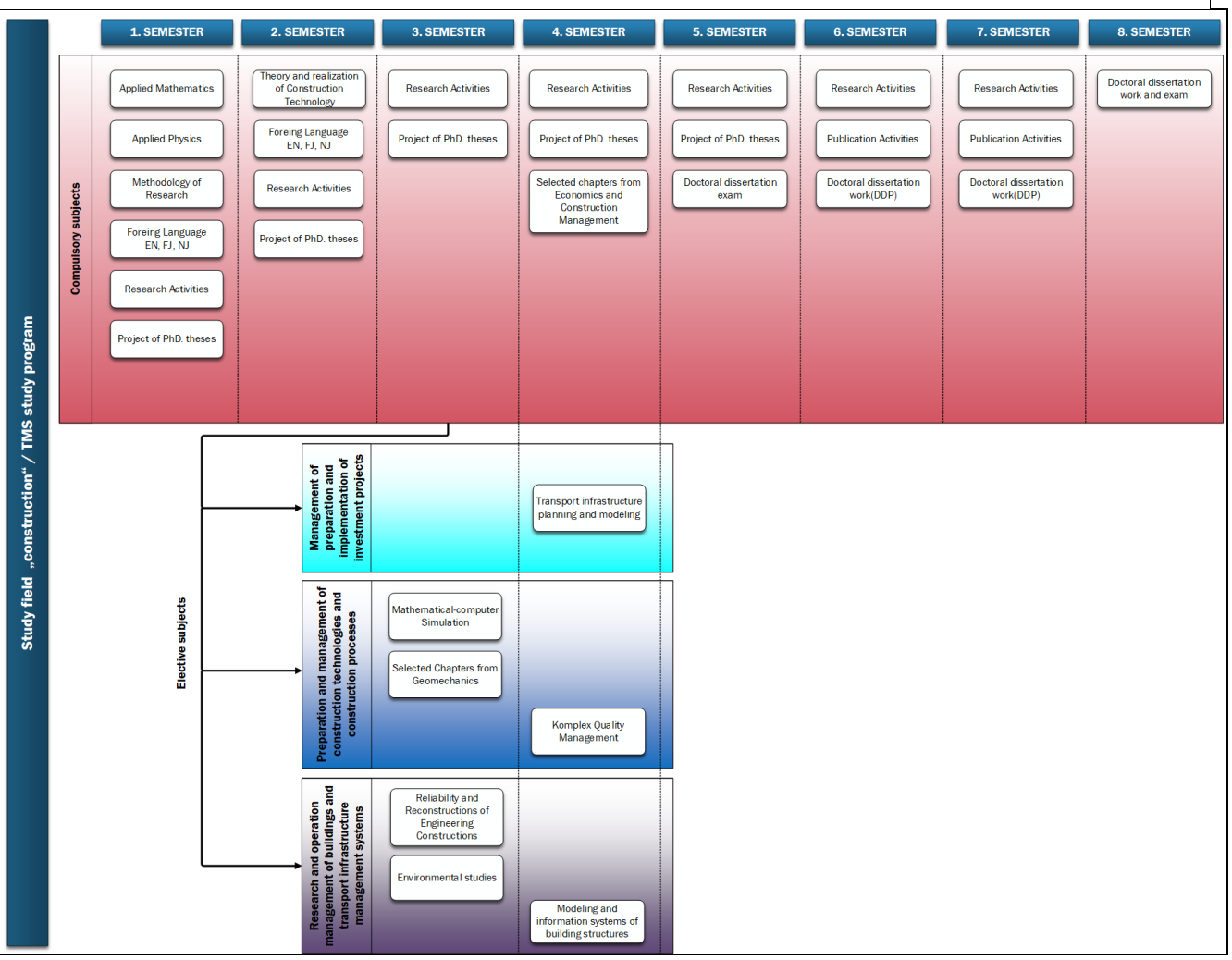
At the university level, it defines processes, procedures and structures:
Directive 203 - Rules for the creation of recommended study plans for study programs at UNIZA (LINK: directive-UNIZA-c-203.pdf)
Directive 204 - Rules for the creation, modification, approval and cancellation of study programs at UNIZA (LINK: directive-UNIZA-c-204-upl
Directive 205 - Rules for the assignment of teachers to the provision of study programs at UNIZA (LINK: directive-UNIZA-c-205.pdf),
Directive 212 - Rules for defining the workload of UNIZA creative employees (LINK directive-UNIZA-c-212.pdf).
Directive No. 110 - Study Regulations for the Third Degree of University Studies at the University of Žilina
For the conditions of the faculty, the information is summarized in the materials:

Information about study 2021/2022 (https://svf.uniza.sk/subory/September_2021/informacia_o_studiu_SvF_2021_2022
2021/2022 for newly admitted students (https://svf.uniza.sk/subory/September_2021/informacia_o_studiu_SvF_2021_2022cast_2.pdf).

b

Recommended study plans for individual study paths

The study program is composed of the main topics of the core of the study field of construction. The profiling of the study program is created subjects and elective subjects. By choosing from compulsory elective courses, students can create their own way of profiling their studies. T
1. management of the preparation and implementation of investment projects
compulsory elective courses: Environmental Studies, Life Cycle Analysis of Transport Structures
2. preparation and management of construction technologies and construction processes
compulsory elective courses: Mathematical - Computer Simulation, Selected Topics in Geomechanics, Complex Quality Management
3. research and management of the operation of constructions and management systems of transport infrastructure
compulsory elective courses: Reliability and Reconstruction of Civil Engineering Structures, Design of Transport Structures, Building Pathology. The structure of the subjects of compulsory and optional subjects is described by the flow chart. At the same time, it defines the possibilities.



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
	Other requirements that the student must meet within the study programme and for its proper completion, including the requirements for state examinations, rules for re-study and rules for the extension, interruption of study

Conditions during the study: completion and positive continuous and final evaluation of individual subjects with the weight of credits stated in the information sheets; elaboration of individual subjects; carrying out scientific - research activities, elaboration of a dissertation project.

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 dissertation.

The number of credits for individual activities is determined by the TKIS study plan and approved by the Trade Union Commission and the Scientific Council of the SvF.

The study part of the doctoral student's study plan consists mainly of participation in lectures, seminars and individual study of professional literature according to the focus of the dissertation, for which the supervisor allocates credits in accordance with the study credit system. The individual study plan of the doctoral student contains a list of subjects to be completed by the doctoral student, a list of dissertation examination subjects selected from the list approved by the union commission and a list of compulsory and recommended literature. The scientific part of the doctoral student's study plan consists of individual or team scientific work of the doctoral student, which is related to the topic of the dissertation. The scientific part of the doctoral student's study plan is professionally guaranteed by the supervisor. The number of credits for individual activities is determined by the study plan of the TKIS SP and is approved by the Trade Union Commission and the Scientific Board of the SvF.

The supervisor submits to the dean an annual evaluation of the fulfillment of the doctoral student's study program no later than 31 August for the relevant academic year, stating whether or not he / she recommends continuing his / her studies. The supervisor evaluates the status and level of fulfillment of the doctoral student's study program, adherence to deadlines, awards credits and, if necessary, submits a proposal to modify his / her individual study program.

The doctoral student registers for the dissertation examination in the full-time form of doctoral studies no later than 18 months from the date of enrollment in the doctoral studies. The doctoral student is obliged to submit a written work prepared for the dissertation examination together with the application for the dissertation examination. The written work for the dissertation exam consists of a dissertation project containing

an overview of the current state of knowledge on the topic, an outline of the theoretical foundations of its future solution and an analysis of the methodological approach to solving the issue. One opponent, appointed by the dean, will prepare a report on the written work for the dissertation examination. The dissertation examination consists of a part consisting of a discussion of the written work for the dissertation examination and a part in which the doctoral student has to demonstrate theoretical knowledge in the specified subjects of the dissertation examination. The dissertation examination takes place before an examination commission, the chairman and members of which are appointed by the dean and on the basis of a proposal by the chairman of the trade union commission. The commission has at least four members, at least one of whom is not from the place where the doctoral student works. At least one member of the commission must have the scientific-pedagogical title of professor, the other members must have the title of at least PhD. The examination board evaluates the overall result of the dissertation examination comprehensively with the statement "passed" or "failed". Minutes of the dissertation examination are prepared, where the commission concludes its recommendation, or proposal to modify the title of the dissertation. The dissertation exam is one of the state exams.

Conditions for proper completion of studies:

The study ends with the completion of the study according to the relevant study program. The student must meet all the obligations prescribed for the study program, namely:

1. completion of all compulsory subjects,
2. completion of the required number of compulsory elective courses,
3. elaboration of the dissertation project and its defense
4. elaboration of the dissertation and its defense
5. publishing activity

The condition for the proper completion of doctoral studies is the completion of the dissertation examination, obtaining the required number of credits and the defense of the dissertation. The dissertation demonstrates the student of the third degree of university study in ŠP TKIS ability and readiness for independent scientific and creative activity in the field of research. The work presents the results of scientific research and the application of research results in practice. The result of the dissertation should be the acquisition of new knowledge in the field. Scientific research is the process of acquiring new scientific knowledge and expanding the boundaries of human knowledge. The student must demonstrate a deep systematic understanding of the field of study, must demonstrate skills in research work and correctly apply the methods of scientific research. The student has to prove that within the dissertation he / she carried out a substantial part of the research himself, that he sketched it, constructed it, realized it, optimized it, and all this in an ethically clean way.

The doctoral student submits to the dean an application for permission to defend the dissertation in accordance with the study schedule, if he / she has obtained the prescribed number of credits. In addition to the dissertation and the abstract, the application will be accompanied by other documents required by Directive no. 110, which also defines the structure of the dissertation, and Directive no. 215 on final, rigorous and habilitation theses in the conditions of the University of Žilina in Žilina. After receiving the application for permission to defend the dissertation, the dean submits to the chairman of the trade union commission the doctoral student's application together with the dissertation and asks him to propose the composition of the defense commission and the opponents' proposal. Commission and min. 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 dissertation, together with all the requisites, including the opponents' opinions, to the chairman of the defense committee. After receiving the materials, the chairman of the defense commission will propose to the dean the time and place of the dissertation defense. The dissertation together with its defense forms one subject. The defense of the dissertation is a state

	examination and in the standard length of study the doctoral student must complete it no later than in the last month of the last academic year of his / her standard length of study. The defense of the dissertation takes place in the form of a scientific debate. The doctoral student will present the content of his dissertation, results and benefits. Opponents will present their opinions, on which the doctoral student will give an opinion. The discussion verifies the accuracy, justification and scientific origin of the knowledge contained in the dissertation. The defense may take place only in the presence of at least two thirds of the members of the defense commission entitled to vote, including at least two opponents, and at least one member of the commission must be from a workplace outside UNIZA. At the end of the defense, a closed meeting of the commission is held, which is attended by its members, including opponents and the trainer. The closed session will evaluate the course and result of the defense and the possibility of using the results of the dissertation in practice. At the same time, the commission and the opponents will decide in a secret ballot whether the commission will propose to award the doctoral student an academic degree. Subsequently, the commission will evaluate the defense of the dissertation with a mark, while the classification is carried out according to the classification scale specified in Directive no. 110. The chairman of the defense committee shall announce the result of the reasoned 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 degree to a doctoral student, together with the minutes and file material of the doctoral student, shall be submitted by the chairman of the defense commission to the dean. After a positive assessment of the proposal of the dissertation defense committee for the award or non-awarding of the academic title "doctor" to the graduate of the doctoral study, the Dean will submit to the Rector documents on the completion of the study. The academic title of "doctor" ("philosophiae doctor", abbreviated to "PhD.") Is awarded by UNIZA with effect from the date of successful defense of the dissertation.	
	For individual study plans, the institution states the requirements for completing the individual parts of the study programme and the student's progress within the study programme in the given structure	
	number of credits for compulsory courses required for proper completion of studies/completion of a part of studies	1 r.: 44, 2 r.: 28, 3 r.: 46, 4.r.474 r.: 60.0,
	number of credits for compulsory optional courses required for the proper completion of studies/completion of a part of studies	15
	number of credits for optional courses required for the proper completion of studies/completion of a part of studies	
	number of credits required for the completion of studies/completion of a part of the studies for the common foundations and for the relevant specialization, in the case of a teaching combination study programme or a translation combination study programme	180
	number of credits for the final thesis and the defense of the final thesis required for the proper completion of studies	24
	number of credits for professional practice required for the proper completion of studies/completion of a part of studies	
	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 courses in engineering study 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 final thesis in art study programmes	

4.	Structure and content of the study programme
f	**Rules for the verification of learning outcomes, students' assessment and the possibilities of appealing against the assessment** Doctoral studies are evaluated according to the principles of the credit system in accordance with the Decree of the Ministry of Education of Assurance of Doctoral Studies at the University of Žilina in Žilina. The quality of the doctoral study is evaluated during its implementation as met and the doctoral student has published the results of his / her work in the form of prescribed outputs, which he / she has stated in the in At the university level, the processes, procedures and structures are defined by Directive 110 - Study Regulations for the Third Degree of Ur Dodatkov-1-az-3.pdf At the faculty level, verification of educational outcomes is included in the methods of evaluating the overall educational outcomes of the stu exactly through the learning outcomes of the subjects. Learning outcomes at the level of subjects are clearly measurable by defined evaluati and Harmonization of UNIZA Study Programs. Assessment corresponds to the content and teaching methods of individual subjects t. j. whe content and purpose of the course, which is stated in each Information Sheet and evaluated by the number of credits. During the implementation of the study program, the subject of the evaluation is mainly the facts related to the fulfillment of the content of th the study program and subsequently by the dean. The decisive facts are the dissertation examination and the defense of the dissertation. A examination or apply for permission to defend the dissertation. The quality of the doctoral study is evaluated by the scientific council of the f Part of the doctoral study is the quality publishing activities of the doctoral student in cooperation with his supervisor. Successful completion the minimum criteria for doctoral study outcomes in individual fields of study and programs at UNIZA, which are necessary for successful co evaluated by the supervisor as part of the annual evaluation, and the results are submitted to the guarantor or the dean. The quality of all pu international level and contribution to the development of the relevant field of study and originality of results. The quality of the outputs, espe The learning outcomes at the subject level are clearly measurable by defined assessment methods, which are listed in the individual informa UNIZA stated in the UNIZA Methodological Recommendation on p. 39. Assessment corresponds to the content and teaching methods of inc according to the area, content and purpose of the course, which is stated in each Information Sheet and evaluated by the number of credits.
g	**Conditions for the recognition of studies or a part of studies** At the university level, the processes, procedures and structures are defined by Directive Directive No. 110 - Study Regulations for the Third UNIZA-v-zn.-Dodatkov-1-az-3.pdf a Directive no. 216: Quality Assurance of Doctoral Studies at the University of Žilina in Žilina - https://www In the case of foreign mobility and internships, Directive 219 - Mobility of students and employees of the University of Žilina abroad defines t In the case of the TMS study program, the guarantor of the study program decides on the recognition of the study, its part or individual subje
h	**Topics of final theses of the study programme (or a link to the list)** The assignment of the topics of final theses, for doctoral studies of dissertations, is determined by Directive no. 110 Study Regulations for th publiknene.pdf . and Directive no. 215 on final, rigorous and habilitation theses in the conditions of the University of Žilina. The topics of the dissertations, on the proposal of the supervisors, are approved by the dean, who approves them no later than two months' program, the name of the supervisor, the form of study (full-time, part-time), the deadline for submission of applications and the date of the a and dates of students applying for study. The date of publication of the dissertation topics is determined by the academic calendar of the trai
i	**Rules for the assignment, processing, opposition, defence and evaluation of final theses in the study programme; list of the super**

At the university level, the processes, procedures, structures of education and evaluation of dissertations are defined by the following guideli Directive no. 110: Study regulations for the third degree of university studies at the University of Žilina - https://www.fri.uniza.sk/uploads/files/ Directive no. 219: Quality Assurance of Doctoral Studies at the University of Žilina - https://www.uniza.sk/images/pdf/kvalita/2021/smernica- Directive no. 215 on final, rigorous and habilitation theses in the conditions of the University of Žilina in Žilina - https://www.uniza.sk/images/

Proposals for dissertations on the proposal of supervisors, with the consent of the chairman of the trade union commission, are approved by the study program, the name of the supervisor, the form of study (full-time, part-time), the deadline for submission of applications and the da method and dates of students applying for study. The date of publication of the dissertation topics is determined by the academic calendar o

The entrance examination takes place in front of an admissions committee of at least four members. The Admissions Committee consists of result of the entrance examination in a closed session with the conclusion "passed" or "failed". If more than one candidate has applied for on quality of the applicant's previous professional publishing activities and the results of his other professional activities. Based on the results of of an applicant, he / she shall also state the name of the supervisor and the topic of the dissertation in his / her decision. The written decisio hands.

During the implementation of the study program, the facts related to the fulfillment of the content of the individual study plan of the doctoral s subsequently by the dean. The decisive facts are the dissertation examination and the defense of the dissertation. A doctoral student who h permission to defend the dissertation.

Ensuring the required level of course and learning outcomes is achieved through the development of: General content of the dissertation project:

- Supervisor's proposal to appoint an opponent and an examination board
- Dissertation exam application
- Exam report from the selected subject before the dissertation exam General content of the dissertation
- Proposal for the appointment of opponents and members of the commission to defend the dissertation Autoreferate

4. Structure and content of the study programme

The student fulfills his / her study obligations on the basis of an individual study plan. It consists of three parts:

1. study part
2. scientific part
3. defense of the dissertation

The study part consists of taking examinations within the study plan of the relevant study program, from compulsory and optional subjects. 18 months after the start of the study. The student is obliged to prepare a written work / project of the dissertation exam for the dissertation e the level of knowledge in the field of core topics of the core knowledge and profile subjects of the study program, orientation in the topic of th

From the beginning of the study, the student performs scientific work related to the topic of his dissertation in accordance with his individual scientific part ends with the defense of the dissertation.

As part of his studies, the student also performs publishing activities, where he publishes his achieved results. Articles must be published at

Within the deadline set for the submission of the thesis, the author of the thesis personally uploads its electronic version identical to the bou http://kniznica.uniza.sk/ezp . UNIZA will send the work in electronic form to the Central Register of Final, Rigorous and Habilitation Theses (theses or rigorous theses, reviewers or other persons are sent in electronic form and these opinions are stored in the Central Register of fin

From the CRZP, the university will obtain the information needed to verify the degree of originality - evaluation of originality. The result is des opinion, he shall state whether he considers the work to be original or plagiarism. After the defense, the dissertation defense commission de opponents, the protocol on the control of originality and the defense of the final thesis by its author.

The doctoral student submits to the dean an application for permission to defend the dissertation in accordance with the study schedule, if h union commission the doctoral student's application together with the dissertation and asks him to propose the composition of the defense c

The dissertation evaluates the method of processing the work (scope, balance, internal continuity of parts of the work), the fulfillment of the proposed conclusions and recommendations in practice are evaluated. Demonstration of theoretical knowledge on the topic, elaboration of t thesis, linguistic, graphic and aesthetic adjustment, activity in elaboration of the diploma thesis and systematic work of the student, ability to

After receiving all the opinions from the opponents, the Dean forwards the doctoral student's request for permission to defend the dissertatio commission will propose to the dean the time and place of the dissertation defense. The dissertation together with its defense forms one sub academic year of his / her standard length of study. The defense of the dissertation takes place in the form of a scientific debate. The doctor discussion verifies the accuracy, justification and scientific origin of the knowledge contained in the dissertation. The defense may take place commission must be from a workplace outside UNIZA.

At the end of the defense, a closed meeting of the commission is held, which is attended by its members, including opponents and the traine the originality of the work after the defense. The basis for the decision of the committee on the final thesis is the opinion of the final thesis su and the opponents will decide in a secret ballot whether the commission will propose to award the doctoral student an academic degree. Su Directive no. 110. The chairman of the defense committee shall announce the result of the reasoned vote to the doctoral student and the oth the doctoral student, shall be submitted by the chairman of the defense commission to the dean. After a positive assessment of the proposa documents on the completion of the study. The academic title of "doctor" ("philosophiae doctor", abbreviated to "PhD.") Is awarded by UNIZ

Evidence of completion of the TKIS doctoral study program in the field of study Construction is a university diploma, a state examination cer traditions and customs of UNIZA.

At the end of the study on the chosen topic, the student will prepare a dissertation. Its defense is carried out before the dissertation defense

Opportunities and procedures for participation in student mobility

In the case of foreign mobility and internships, Directive 219 - Mobility of students and staff of the University of Žilina abroad defines the pro

Within the study program, the study plan is compiled primarily from the offer of study subjects at a foreign university and contains the equiva

Foreign mobility of scientific and pedagogical staff is required within the fulfillment of the conditions for habilitation and inauguration proceed

Rules for adherence to academic ethics and rules for drawing consequences

At the university level, the processes, procedures and structures are defined by Directive 207 - Code of Ethics of the University of Žilina (Lin Students of the University of Žilina (Link: 02092021_S-201-2021-Disciplinary-Order-for-students-UNIZA.pdf).

The essence of the code of ethics is that all persons employed or studying at the university are governed by the following ethical principles: dignity and honor, while respecting fundamental human rights and freedoms. Unacceptable practices in the field of pedagogy and research

The Disciplinary Code for ŽUŽ students defines: disciplinary offense, person responsible for the disciplinary offense, disciplinary measure, d

Both documents have not yet been applied at the level of the study program.

Procedures applicable to students with special needs

At the university level, Directive 198 - Support for Study Applicants and Students with Special Needs at the University of Žilina defines proce studies at the University of Žilina in Žilina - https://www.fri.uniza.sk/uploads/files/1490171294-smernica-110-stud-por-pre-3-st-v-zneni-dod-1-c-216.pdf .

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

Procedures for filing complaints and appeals by students

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

Compulsory courses

Grd.	Sem.	Course	Name	Short.	Hours	End	Credits	Profile	Core	Guarantor
1	Z	4D0E101	Applied mathematics	AM	26 - 0 - 0	S	5	yes	yes	doc. Ing. Mária Kúdelčíková, PhD.
1	Z	4D0E102	Applied physics	AP	26 - 0 - 0	S	5	-	yes	prof. RNDr. Jozef Kúdelčík, PhD.
1	Z	4D0E106	Methodology of scientific work	MSW	0 - 26 - 0	S	5	yes	yes	prof. Ing. Marián Drusa, PhD.
1	Z	4D0E107	Foreing language EN	FL	0 - 26 - 0	V	2	-	-	PaedDr. Lenka Môcová, PhD.
1	Z	4DTE104	Scientific activity	SA	0 - 26 - 0	V	5	yes	yes	prof. Ing. Ján Mikolaj, CSc.
1	Z	4DTE105	Dissertation project	DP	0 - 26 - 0	V	2	yes	yes	doc. Ing. Katarína Zgútová, Dr.
1	L	4D0E205	Foreing language EN	FL	0 - 26 - 0	S	3	-	-	Mgr. Eva Leláková, PhD.
1	L	4DTE104	Scientific activity	SA	0 - 26 - 0	V	5	yes	yes	prof. Ing. Ján Mikolaj, CSc.
1	L	4DTE105	Dissertation project	DP	0 - 26 - 0	V	5	yes	yes	doc. Ing. Katarína Zgútová, Dr.
1	L	4DTE108	Theory of construction technology	TCT	26 - 0 - 0	S	5	yes	yes	doc. Ing. Katarína Zgútová, Dr.
1	L	4DTE201	Teaching Activities		0 - 52 - 0	V	2	-	-	doc. Ing. Juraj Šrámek, PhD.
2	Z	4DTE105	Dissertation project	DP	0 - 26 - 0	V	5	yes	yes	doc. Ing. Katarína Zgútová, Dr.
2	Z	4DTE202	Scientific activity	SA	0 - 39 - 0	V	5	yes	yes	prof. Ing. Ján Mikolaj, CSc.
2	L	4DTE202	Scientific activity	SA	0 - 39 - 0	V	6	yes	yes	prof. Ing. Ján Mikolaj, CSc.
2	L	4DTE203	Dissertation project	DP	0 - 26 - 0	V	5	yes	yes	doc. Ing. Katarína Zgútová, Dr.
2	L	4DTE209	Selected chapters from economics and construction management	SCHCM	13 - 0 - 0	S	5	yes	yes	prof. Ing. Ján Mikolaj, CSc.
2	L	4DTE423	Teaching Activities		0 - 52 - 0	V	2	-	-	doc. Ing. Juraj Šrámek, PhD.
3	Z	4DTE302	Scientific activity	SA	0 - 26 - 0	V	5	yes	yes	prof. Ing. Ján Mikolaj, CSc.
3	Z	4DTE303	Project of dissertation work	PDW	0 - 26 - 0	V	4	yes	yes	doc. Ing. Katarína Zgútová, Dr.
3	Z	4DTE304	Dissertation exam Scientific	DE	0 - 65 - 0	T	15	yes	yes	doc. Ing. Juraj Šrámek, PhD.
3	L	4DTE402	activity Publishing activity	SA	0 - 78 - 0	V	6	yes	yes	prof. Ing. Ján Mikolaj, CSc.
3	L	4DTE403	Doctoral dissertation work	PA	0 - 52 - 0	V	8	yes	yes	doc. Ing. Martin Pitoňák, PhD.
3	L	4DTE404	Teaching Activities	DDW	0 - 78 - 0	V	6	yes	yes	doc. Ing. Juraj Šrámek, PhD.
3	L	4DTE423	Scientific activity		0 - 52 - 0	V	2	-	-	doc. Ing. Juraj Šrámek, PhD.
4	Z	4DTE501	Publishing activity	SA	0 - 78 - 0	V	6	yes	yes	prof. Ing. Ján Mikolaj, CSc.
4	Z	4DTE502	Doctoral dissertation work	PA	0 - 52 - 0	V	10	yes	yes	doc. Ing. Martin Pitoňák, PhD.
4	Z	4DTE503	Dissertation and its defense	DDW	0 - 65 - 0	V	7	yes	yes	doc. Ing. Juraj Šrámek, PhD.
4	L	4DTE601		DAD	0 - 195 - 0	T	24	yes	yes	prof. Ing. Ján Mikolaj, CSc.

Compulsory optional courses

Grd.	Sem.	Course	Name	Short.	Hours	End	Credits	Profile	Core	Guarantor
2	Z	4D0E206	Mathematical-computer Simulation	MCS	26 - 0 - 0	S	5	yes	-	doc. Ing. Juraj Mužík, PhD.
2	Z	4D0E207	Selected Chapters from Geomechanics	SChGeo	26 - 0 - 0	S	5	yes	yes	prof. Ing. Marián Drusa, PhD.
2	Z	4D0E210	Environmental science	EnVS	26 - 0 - 0	S	5	yes	-	doc. Ing. Dušan Jjandačka, PhD.

2	Z	4D0E212	Reliability and reconstructions of engineering constructions	RREC	26 - 0 - 0	S	5	yes	yes	prof. Ing. Josef Vičan, CSc.

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

2	L	4DTE213	Totalquality management	TQM	26 - 0 - 0	S	5	yes	yes	doc. Ing.Katarína Zgútová, Dr.
2	L	4DTE214	Life cycle assessment of traffic constructions	LCAoTC	26 - 0 - 0	S	5	yes	yes	doc. Ing. Eva Remišová, PhD.
2	L	4DTE215	Desing of structures of traffic constructions	DSTC	26 - 0 - 0	S	5	yes	yes	doc. Ing. Martin Pitoňák, 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

Dean's Order No. 11/2021 on the academic calendar for doctoral studies at the Faculty of Civil Engineering of the University of Žilina in the academic year 2021/2022 https://shportal1.uniza.sk/unizadocs/SVF/Pr%C3%ADkazy/2021/11_prikaz_dekana_akademicky_kalendar_2021_2022dokdok.pdf

Current schedule

The current schedule is listed on the page:

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)**

Prof. Ing. Ján Mikolaj, CSc

head of the TMS department

jan.mikolaj@uniza.sk

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.	4D0E106	Methodology of scientific work
prof. Ing. Marián Drusa, PhD.	4D0E207	Selected Chapters from Geomechanics
doc. Ing. Dušan Jandačka, PhD	4D0E210	Environmental science
doc. Ing. Mária Kúdelčíková, PhD.	4D0E101	Applied mathematics
doc. Ing. Juraj Mužík, PhD.	4D0E206	Mathematical-computer Simulation
doc. Ing. Eva Remišová, PhD.	4DTE214	Life cycle assessment of traffic constructions
prof. Ing. Josef Vičan, CSc.	4D0E212	Reliability and reconstructions of engineering constructions
doc. Ing. Katarína Zgútová, Dr.	4DTE105	Dissertation project
doc. Ing. Katarína Zgútová, Dr.	4DTE105	Dissertation project
doc. Ing. Katarína Zgútová, Dr.	4DTE105	Dissertation project
doc. Ing. Katarína Zgútová, Dr.	4DTE108	Theory of construction technology
doc. Ing. Katarína Zgútová, Dr.	4DTE203	Dissertation project
doc. Ing. Katarína Zgútová, Dr.	4DTE213	Total quality management
doc. Ing. Katarína Zgútová, Dr.	4DTE303	Project of dissertation work

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	4D0E102	Applied physics
prof. Ing. Marián Drusa, PhD.	Seminar	4D0E106	Methodology of scientific work
prof. Ing. Marián Drusa, PhD.	Lecture	4D0E207	Selected Chapters from Geomechanics
doc. Ing. Dušan Jandačka, PhD.	Lecture	4D0E210	Environmental science

7. Persons responsible for the study programme

Name, surname, titles	Org.form	Course	Name
prof. RNDr. Jozef Kúdelčík, PhD.	Lecture	4D0E102	Applied physics
doc. Ing. Mária Kúdelčíková, PhD.	Lecture	4D0E101	Applied mathematics
Mgr. Eva Leláková, PhD.	Seminar	4D0E205	Foreing language EN
prof. Ing. Ján Mikolaj, CSc.	Seminar, Seminar, Seminar	4DTE105	Dissertation project
prof. Ing. Ján Mikolaj, CSc.	Seminar	4DTE203	Dissertation project
prof. Ing. Ján Mikolaj, CSc.	Lecture	4DTE303	Project of dissertation work
PaedDr. Lenka Môcová, PhD.	Seminar	4D0E107	Foreing language EN
doc. Ing. Juraj Mužík, PhD.	Lecture	4D0E206	Mathematical-computer Simulation
doc. Ing. Daniel Papán, PhD.	Seminar	4D0E106	Methodology of scientific work
doc. Ing. Martin Pitoňák, PhD.	Seminar, Seminar, Seminar	4DTE105	Dissertation project
doc. Ing. Martin Pitoňák, PhD.	Seminar	4DTE203	Dissertation project
doc. Ing. Martin Pitoňák, PhD.	Lecture	4DTE213	Total quality management
doc. Ing. Martin Pitoňák, PhD.	Lecture	4DTE303	Project of dissertation work
doc. Ing. Eva Remišová, PhD.	Lecture	4DTE108	Theory of construction technology
doc. Ing. Eva Remišová, PhD.	Lecture	4DTE214	Life cycle assessment of traffic constructions
doc. Ing. Juraj Šrámek, PhD.	Seminar, Seminar, Seminar	4DTE105	Dissertation project
doc. Ing. Juraj Šrámek, PhD.	Seminar	4DTE203	Dissertation project
doc. Ing. Juraj Šrámek, PhD.	Lecture	4DTE303	Project of dissertation work
doc. Ing. Mária Trojanová, PhD.	Seminar, Seminar, Seminar	4DTE105	Dissertation project
doc. Ing. Mária Trojanová, PhD.	Seminar	4DTE203	Dissertation project
doc. Ing. Mária Trojanová, PhD.	Lecture	4DTE303	Project of dissertation work
prof. Ing. Josef Vičan, CSc.	Lecture	4D0E212	Reliability and reconstructions of engineering constructions
doc. Ing. Katarína Zgútová, Dr.	Seminar, Seminar, Seminar	4DTE105	Dissertation project
doc. Ing. Katarína Zgútová, Dr.	Lecture	4DTE108	Theory of construction technology
doc. Ing. Katarína Zgútová, Dr.	Seminar	4DTE203	Dissertation project
doc. Ing. Katarína Zgútová, Dr.	Lecture	4DTE213	Total quality management
doc. Ing. Katarína Zgútová, Dr.	Lecture	4DTE303	Project of dissertation work

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

The new study program

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

Ing. Vladimíra Hostačná

h **Study advisor of the study programme**

Doc.Ing.juraj Šrámek, PhD

Supervisors according to individual dissertation topics

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

International Mobility Officer, study abroad (Erasmus +): Mgr. Zuzana Pudiková

https://svf.uniza.sk/index.php/studenti/studentsky-zivot/studium-v-zahranici

Career advisor: PhDr. Miroslava Bruncková, Ph.D.

https://www.uniza.sk/index.php/studenti/prakticke-informacie/poradenske-a-karierne-centrum-uniza

UZ Veľký Diel accommodation: Jozef Lacek (director of UZ Veľký Diel)

https://vd.internaty.sk/

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

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

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).

A computer room and a tunnel control simulator classroom have been set up to teach profile subjects. Equipped laboratories of the Faculty of Civil Engineering are available for teaching laboratory and experimental tests.

AC014 - above standard (specialized software for computer graphics, optimization methods, economic efficiency) - KTMS

AC015 - above-standard tunnel control simulator

There are also other classrooms available, which are assigned to the subjects by the UNIZA Rector's Schedule Department:

AC205 - above standard (software), AC105 - above standard (software), AC206 - above standard (software), AE102 - standard, AE103 - standard, AE202 - standard, AE203 - standard, AE303 - standard

AF016 - laboratory, AE013 - production and testing of fresh concrete, non-destructive testing of construction materials, BJ3 - pavilion type laboratories

BI25 - pulsator - preparation and testing (static and dynamic) of large samples or entire structural load-bearing elements

BJ40 - preparation and testing of hardened materials (eg concrete)

Standard - means standard equipment - computer, data projector, whiteboard, wi-fi, connection by a separate computer

All classrooms are suitable for disabled students.

Material and technical equipment of laboratories and laboratory classrooms is registered at: https://vav.uniza.sk/vevysun.php?id=1

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

In addition to the above classrooms, university-wide classrooms registered at: https://vzdelavanie.uniza.sk/vzdelavanie/rozvrh2.php are used.

a With these classrooms, it has a schedule department, which assigns them to individual study programs and subjects according to the number of students and the requirements of faculties / departments. The technical equipment of these classrooms is presented in the form of virtual tours at: https://vzdelavanie.uniza.sk/vzdelavanie/rozvrh2.php .

Department of TMS - has at its disposal top equipment for experimental measurement of quality and fatigue of asphalt mixtures, accredited road testing / ATZ / - use pattern - for measuring long-term effects of road construction and tunnel operation control simulator. In cooperation with the Research Center, it uses a unique diagnostic technique for mass data collection and roadworthiness assessment.

The KGt laboratory concentrates the basic program of soil and rock mechanics tests, and some special geotechnical tests to determine filtration and technological properties. The laboratory has at its disposal a unique large-scale device for shear and deformation tests for testing earth structures reinforced with geosynthetics and a unique mobile device - the static penetration set PAGANI TG 63-200.

KSKM has the necessary equipment for research into the resistance of load-bearing components (hydraulic pulsator and breaking track, ALPHA press, MATEST press), as well as for monitoring stresses and deformations in experimental analyzes of the behavior of load-bearing elements under load. It has a measuring line for sensing deformations of building structures and bridges SPIDER 8 with applications in laboratory conditions as well as in situ. The department's instrumentation includes a SONAGAG ultrasonic thickness gauge, a PUNDIT ultrasonic device, a DYNAMETER tear test device, a PROFOMETER 5 reinforcement position device, a EQUOTIP hardness and subsequent strength tester, a reinforcement corrosion analyzer, etc.

Experimental measurements in the KCEI laboratory in the BJ037 building are supplemented by laboratory tests aimed at determining the heat and technical characteristics of road construction materials. In the field of materials used in the construction layers of road roads, the department has sufficient instrumentation to determine the quality parameters of aggregates and top instrumentation to determine the quality parameters of various types of binders and asphalt mixtures according to current STN EN. It also has sufficient instrumentation to simulate the effects of climatic influences on road construction materials and has a penetration radar to detect layers of road structures. The department is equipped with devices for automated monitoring of traffic flow elements and analysis of emission and noise conditions along roads.

For educational and scientific research activities, KŽSTH uses an experimental base, which includes an outdoor test stand, air-conditioned cabinet, hydraulic press, pulsator, equipment for determining the deformation resistance of structural layers of the basement and a device for determining the penetration module. The department also has instruments and equipment for measuring and recording the geometric parameters of the track (measuring trolley KRAB-Light), deformation and temperature characteristics, various types of compaction equipment and equipment for particle size distribution of bulk materials (vibrating table, sets of screens, dryers).

b **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.)**

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

The information necessary for the effective management of study programs at UNIZA can be found in the UNIZA Academic Information and Education System (AIVS). Details on sources of information in this area are in Directive no. 217 Resources to support educational, creative and other related activities of the University of Žilina in Žilina no. 16 https://www.uniza.sk/images/pdf/kvalita/2021/smernica-UNIZA-c-217.pdf and in Directive no. 218 Directive on the collection, processing, analysis and evaluation of information to support the management of study programs. https://www.uniza.sk/images/pdf/kvalita/2021/smernica-UNIZA-c-218.pdf .

The Department for Schedules, in cooperation with the relevant study departments of the faculties and the Center for Information and Communication Technologies (CeIKT), collects in information systems data on the passportization of available premises and on the inventory of technology used in study programs. 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 study programs as well as information on university-wide study programs. Essential information about the study, including study programs, instructions for the admission procedure, graduation, etc. are part of UNIZA's internal regulations or parts thereof. Access to these documents is available on the UNIZA website at www.uniza.sk in the Applicants section. Detailed information on the study programs is located on the faculty website with the option to use the links on the main page. Information on currently provided full-time study programs in the relevant academic year is always available on the Study Programs website.

Access to study literature is provided by the UNIZA University Library (UK) http://ukzu.uniza.sk/ - see also Directive no. 217, Art. 17: Resources to support educational, creative and other related activities.

Access to the compulsory literature listed in the Information Sheet (available in the Education system) of the relevant subject is available either 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 University of Žilina in Žilina are also available in the EDIS university publishing house.

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

Departmental libraries have been set up at the departments of the faculty with access for students through authorized employees. At lectures and seminars, students are regularly informed about access to online resources.

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 focus of the work of distance education and study control at SvF UNIZA is e-education, built on the basis of LMS Moodle. The organization of the courses is based on guided study with the support of information and communication technologies in close connection with AIVS.

Currently, the MS Teams system is used to conduct online lectures and exercises, there are instructions from the Center for Information and Communication Technologies (CIKT):

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 - study plans and authorization of graduates for the performance of authorized professions and professional qualifications.

Doprastav a.s. - study plans

Strabag a.s - excursions

Proma s.r.o. Žilina - BIM lectures

Kros a.s. - computer software, construction calculation, construction production management

Odis s.r.o. - Valuation and Information Systems

First sk, S.r.o.- construction software

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 https://www.uniza.sk/images/pdf/kvalita/2021/smernica-UNIZA-c-217.pdf - especially Articles 17, 18 and 19 .

UNIZA creates conditions and supports students' sports and cultural activities through various clubs and the university pastoral center, while creating conditions and supporting other student activities, especially the activities of student organizations and student associations that operate at UNIZA and their activities are in the interest of students.

The formation of these organizations and associations is governed by the procedures set 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 in Žilina”, with the approval of the UNIZA Rector granting consent to the establishment of a student organization / club / association based on the opinion of a three-member commission headed by the Vice-Rector for Education. These organizations are governed by statutes approved by the Rector. Their leaders are responsible to the Rector for the activities of these organizations. List of student organizations / clubs / associations operating in UNIZA:

a) GAMA club,
b) Council of accommodated students Veľký Diel,
c) Council of accommodated students of Hlina,
d) Internet club,

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

e) 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 purpose-built facility for the church and religious society, also operate at UNIZA.

Students of the Faculty of Civil Engineering take advantage of the opportunities for social, sports, cultural, spiritual and social activities offered by UNIZA.

The focus of individual organizations 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 workplace with the aim of developing a program of physical activities for UNIZA students and employees.

Substantial information 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**

At the university level, Directive 219 - Mobility of students and staff of the University of Žilina abroad defines the processes, procedures and structures (Link: smernica-UNIZA-c-219.pdf) and https://uniza.sk/index.php/studenti/general-information/erasmus.

At the faculty level, these activities have a dean for development and foreign relations in his portfolio.

Link to page Erasmus +: https://svf.uniza.sk/index.php/studenti/studentsky-zivot/studium-v-zahranici-erasmus

Contact person: Ing. arch. Peter Krušinský, Ph.D.

Contact (mail): peter.krušinský@uniza.sk

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

Required abilities and necessary admission requirements

a

At UNIZA level, Directive no. 206: Principles and rules of admission procedure to study at the University of Žilina in Žilina - https://akreditaci

Faculties and other components also guarantee, through respect for and application of the principles and rules of the admission procedure f
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 nec
c) the selection of applicants is based on appropriate methods for assessing their eligibility for study,
(d) the criteria and requirements for tenderers are published in advance and easily accessible.

Pursuant to Act 131/2002 on Higher Education Institutions and on Amendments to Certain Acts, the basic condition for admission to doctora a foreign applicant or student who has completed his / her studies abroad, he / she shall submit to the application for university study at the l a certificate of completion of a second degree by the relevant institution in the SR, resp. UNIZA will apply for recognition of the diploma.
Other conditions for admission to study are set at the faculty level:
The selection of candidates is made on the basis of an evaluation of the entrance examination, which. The entrance exam is conducted as a program, the content of which is to verify the knowledge of foreign language, mathematics and professional and scientific orientation of the c reasons for choosing the topic. in solving the topic, as well as the expected conclusions of the work. The evaluation includes an assessment applicant's independent scientific work.

b **Admission procedures**

At the university level, doctoral studies are governed by the rules defined in Directive no. 110: Study regulations for the third degree of unive www.fri.uniza.sk/uploads/files/1490171294-smernica-110-stud-por-pre-3-st-v-zneni-dod-1-a-2-verejnene.pdf and Directive no. 219: Quality https://www.uniza.sk/images/pdf/kvalita/2021/smernica-UNIZA-c-216.pdf .

The rules, procedures and structures for admission to the 3rd level of higher education are defined by Directive 206 - Principles and rules of akreditacia.uniza.sk/doc/S_206_2021.pdf .

Applicants for the TKIS study program apply for dissertation topics written by the FCE and published on the official bulletin board. The topics consent of the chairman of the TKIS trade union commission, are approved by the dean, who writes them out no later than two months befo For each topic, the name of the study program, the name of the supervisor, the form of study (full-time, part-time), the deadline for submissio given.

The entrance examination takes place in front of an admissions committee of at least four members. The Admissions Committee consists of dean. Another member of the commission is a trainer for the listed topic. The Admissions Committee evaluates the result of the entrance ex "failed". If more than one topic has been logged in
candidates, determine their order according to the success of the entrance examination. In determining the order, the commission also takes professional publishing activities and the results of his other professional activities.

Based on the results of the entrance examination, the Dean will decide on the admission of the candidate within 30 days from the date of th applicant, he / she shall also state the name of the supervisor and the topic of the dissertation in his / her decision. The written decision mus possibility of submitting a request for review of the decision and be delivered to the tenderer in his own hands.

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

Results of the admission process over the last period

The new study program

10. Feedback on the quality of provided education

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

At the university level, it defines processes, procedures and structures https://svf.uniza.sk/index.php/fakulta/vseobecne-informacie/vnutorny-system-kvality-svf and Directive no. 223 - Monitoring and continuous evaluation of study programs, https://www.uniza.sk/images/pdf/kvalita/2021/smernica-UNIZA-c-223.pdf .

At the UNIZA level, for the needs of monitoring and evaluation of students' opinions on the quality of the study program, Directive no. 223 Monitoring and continuous evaluation of study programs https://www.uniza.sk/images/pdf/kvalita/2021/smernica-UNIZA-c-223.pdf .

The process of monitoring and periodic evaluation of study programs takes place at UNIZA at three levels:
(a) at Council level, the study program;
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:
(a) internal stakeholders:
i. UNIZA students through subject-level and annual program-level feedback;
ii. teachers through regular annual evaluation of subjects and feedback mapping their perception of the teaching process on a three-year basis;
(b) external stakeholders:
i. UNIZA graduates through feedback mapping their entry into the labor market and adaptation in employment on a three-year basis;
ii. employers through feedback mapping the readiness of graduates for internships carried out on a three-year basis.

a

SvF obtains data for monitoring quantitative and qualitative indicators of the quality of the study program 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 ...),
(b) direct measurement 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 ..), evaluation of final / dissertation theses, etc.);
c) indirect measurement capturing stakeholders' perceptions of learning, learning experiences, levels of satisfaction, attitudes, links to learning outcomes and practice 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 program 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 programs. 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 program in coordination with the dean of the faculty. The person responsible for monitoring at 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 programs at the level of the Study Program Council is the guarantor of the study program, at the faculty level the dean. Monitoring capturing the perception of education by stakeholders is carried out mainly through questionnaires.

At the department level, subject guarantors conduct their own anonymous questionnaire surveys at the end of the semester in an effort to obtain feedback. The findings are then projected into the teaching process in the next academic year.

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

The results of the feedback are carried out through student surveys - (https://svf.uniza.sk/index.php/fakulta/vseobecne-informacie/vnutorny-system-kvality-svf), which are regularly evaluated. At the level of teachers, the feedback and measures taken take place mainly at the meetings of the relevant department.

The results of the questionnaire survey have been published since the academic year 2010/2011. An example of a specific evaluation for the last academic year can be found at https://svf.uniza.sk/subory/September_2021/2020_2021_dotaznik_studenti.pdf .

10. Feedback on the quality of provided education

Feedback at the level of the study program is obtained through a regular anonymous questionnaire designed for students graduating from all levels of education. It is used to map the entire study program. General set of questions
consists of items organized at least into topics:

Content of education (fulfillment of set outcomes of SP education, interconnection of subjects, identification of possible duplications ...);
Organization of education (workload, involvement in the life of the faculty, solving professional tasks at the faculty / department / workplace, degree of internationalization, internships and compulsory internships ...);
Access to study and other counseling services;
Leadership and support in the process of preparing a bachelor's, master's or dissertation thesis.

At the level of study programs, the guarantor of the study program analyzes the feedback obtained, identifies opportunities and suggestions for strengthening strengths, suggestions for eliminating identified weaknesses and possible threats.

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

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

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

c

Feedback from graduates of study programs maps the effect and impact of completed higher education at the appropriate level. The anonymous questionnaire is intended for all graduates who have completed their studies in a given study program in the last three years.
The general set of questions consists of items organized at least into topics:

Scope of application
Transition to employment
Relevance of the study in relation to employment, subject composition, comparison of knowledge, skills and competencies acquired by the study and required by the internship;
The need for further education.

Graduates are contacted by the Council of the study program in cooperation with the dean of the faculty to fill in the questionnaire. The application shall include information on the place of publication of previous monitoring and periodic evaluation results.

The guarantor of the study program and senior staff analyze the data from the relevant part of the feedback obtained, identify opportunities and suggestions for strengthening strengths, eliminating identified weaknesses and possible threats, propose measures to improve the quality of education.

The key findings and the results obtained from the surveys and feedback from the graduates are subsequently published on the website of SvF 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 analyzed, evaluated by the Study Program Board and are the basis for the preparation of the Study Program Evaluation Report within the periodic evaluation of the study program by the Study Program Council.

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

Internal regulations and information / Link

Title of the regulation	Link
S 106_2012 Statute as amended by Appendices 1 to 5	https://www.uniza.sk/images/pdf/uradna-tabula/17012019_S-106-2012-UNIZA-v-zneni-Dodatkov1-az-5.pdf
S 110_2013 Study regulations for the 3rd level of university studies at UNIZA as amended Supplements 1 to 3	https://www.uniza.sk/images/pdf/uradna-tabula/smernice-predpisy/10122020_S-110-2013-Studijny-poriadok-PhD-v-zneni-D1-a-D
S 132_2015 on free access to information	http://uniza.sk/document/Zasady_SI_ZU_VI-2015.pdf
S 149_2016 Organizational rules as amended Supplements no. 1 to 17	https://www.uniza.sk/images/pdf/uradna-tabula/smernice-predpisy/2021/02092021_S-149-2016-Organizacny-poriadok-UNIZA-D1D16-07062021.pdf
S 152_2017 Principles of publishing activities of UNIZA, as amended by Appendix no. 1	SM152-zasady-edicnej-cinnosti-31032020.pdf (uniza.sk)

S 1592017 Work order	https://www.uniza.sk/images/pdf/uradna-tabula/smernice-predpisy/S-15 Pracovn-poriadok_03112017.pdf
S 1632018 Accommodation regulations of accommodation facilities UNIZA	https://www.uniza.sk/images/pdf/ubytovanie/27082018_Ubytovaci-poria od-01092018.pdf
S 167_2018 Rules of procedure of the disciplinary. UNIZA commissions as amended Add_No_1	https://www.uniza.sk/images/pdf/uradna-tabula/smernice-predpisy/2021/09072021_S-167-2018-Rokovaci-poriadok-disciplinarnyc UNIZA.pdf
S 180_2019 Grant system of the University of Žilina in Žilina as amended by D1 to D2	04082021_S-180-2021-Grantovy-system-Zilinskej-univerzity-v-Ziline-v-Dodatku-c-2-26072021.pdf (uniza.sk)
S 200_2021 Principles of selection procedure	https://www.uniza.sk/images/pdf/uradna-tabula/smernice-predpisy/2021/02092021_S-200-2021-Zasady-vyberoveho-konania.pdf
S 202_2021 Criteria for filling the positions of professors and associate professors and principles for filling the positions of guest professors	https://www.uniza.sk/images/pdf/kvalita/2021/smernica-UNIZA-c-202.pd
S 207_2021 UNIZA Code of Ethics	https://www.uniza.sk/images/pdf/uradna-tabula/smernice-predpisy/2021/12072021_S-207-2021-Eticky-kodex-UNIZA.pdf
S 208_2021 Acquire the rules for acquisition and revocation of rights to habilitation and inauguration proceedings	https://www.uniza.sk/images/pdf/kvalita/2021/smernica-UNIZA-c-208.pd
S 210_2021 Statute of the UNIZA Accreditation Board	https://www.uniza.sk/images/pdf/kvalita/2021/smernica-UNIZA-c-210.pd
S 211_2021 The process of obtaining scientific-pedagogical titles and art-pedagogical titles	https://www.uniza.sk/images/pdf/kvalita/2021/smernica-UNIZA-c-211.pd
S 213_2021 Quality Assurance Policies at UNIZA	https://www.uniza.sk/images/pdf/kvalita/2021/smernica-UNIZA-c-213.pd
S 214_2021 Internal quality system structures	https://www.uniza.sk/images/pdf/kvalita/2021/smernica-UNIZA-c-214.pd
S 216_2021 Quality assurance of doctoral studies at UNIZA	https://www.uniza.sk/images/pdf/kvalita/2021/smernica-UNIZA-c-216.pd
S 220_2021 Evaluation of creative activity of employees in relation to ensuring the quality of education at UNIZA	https://www.uniza.sk/images/pdf/kvalita/2021/smernica-UNIZA-c-220.pd

Signature: Date: