



**FACULTY OF OPERATION AND ECONOMICS  
OF TRANSPORT AND COMMUNICATIONS**

**DOCTORAL DEGREE STUDY**

# UNIVERSITY OF ŽILINA IN ŽILINA

## Faculty of Operation and Economics of Transport and Communications

### CONTACT

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## ACCREDITED STUDY PROGRAMMES OFFERED FOR THE ACADEMIC YEAR 2021/2022

DOCTORAL DEGREE STUDY PROGRAMMES	
FULL-TIME STUDY	PART-TIME STUDY **
LENGTH OF STUDY 3 YEARS	LENGTH OF STUDY 4 YEARS
Transport Technique and Technology *	Transport Technique and Technology *
Postal Technologies *	Postal Technologies *
Transport Services *	Transport Services *
Economics and Management of Enterprise *	Economics and Management of Enterprise *
Economics of Transport, Communications and Services *	Economics of Transport, Communications and Services *
* study programme is also available in the English language	
** standard tuition fee for the part-time study programmes is € 1 700 for an academic year	

**Detailed information about particular study programmes:**

- syllabus can be found at:

<https://fpedas.uniza.sk/sk/studenti/vseobecne-informacie/doktorandske-studium>.

- course information sheets can be found at:

<http://vzdelavanie.uniza.sk/vzdelavanie/plany.php>.



## EXPECTED NUMBER OF ACCEPTED APPLICANTS TO THE FIRST YEAR

DOCTORAL DEGREE STUDY		
STUDY PROGRAMME / FIELD OF STUDY	PLANNED CAPACITY	
	FULL-TIME	PART-TIME *
Transport Technique and Technology / Transport	6	4
Postal technologies / Transport	2	3
Transport Services / Transport	6	4
Economics and Management of Enterprise / Economics and Management	6	4
Economics of Transport, Communications and Services / Economics and Management	6	4
<b>TOTAL</b>	26	19

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



## TERMS AND CONDITIONS OF ADMISSION

### Basic condition of admission

The basic condition for admission to doctoral degree study (study programme of the third degree) is the full completion of the second degree of university study (Higher Education Act, no. 131/2002 Coll.) in the same or related field of study<sup>1</sup>. In case of a foreign applicant or a student who has completed his / her study abroad, he / she shall submit along with the application form (no later than the date of enrolment) a decision on the recognition of the certificate of completion of the second degree of higher education recognized by a relevant institution in the Slovak Republic or he / she shall ask UNIZA for the recognition of the certificate of education.

### Other conditions of admission

#### 1. Selection procedure

All applicants have to attend the selection procedure.

In case of applicants for the part-time study, the Faculty takes into account their abilities and prerequisites resulting from the focus of their practice for a period of at least the last 2 years. Successful completion of the entrance examination.

#### Rules of Selection Procedure

The entrance examination is carried out in front of the Admission Committee in the given study programme. The Committee shall submit to the Dean the recommended proposal of successful applicants. The Dean decides on the admission of the applicant within 30 days from the date of the entrance examination.

The content of the entrance examination is:

- **written examination** in the form of a test in one world language<sup>2</sup>,
- **oral examination** in front of the selection committee of the respective field of study. The content of this examination is to verify the knowledge and professional and scientific orientation of the applicant in the field he / she applies for, including the statement of reasons for choosing the topic and methods that he / she intends to use in solving the given topic, as well as expected conclusions of the thesis.

<sup>1</sup> A list of related fields can be found on the education portal website: <http://https://www.portalvs.sk/sk/studijne-odbory> in the "description" of the relevant field of study.

<sup>2</sup> Foreign language is different from the mother tongue (native language) of an applicant.



## ADMISSION OF FOREIGN STUDENTS

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

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



## APPLICATION FORM

**Application forms are to be submitted for study programmes and dissertation topics (dissertation topics are published on the website [www.fpedas.uniza.sk](http://www.fpedas.uniza.sk) - Students - Doctoral study).**

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

Applicants have to fill in the form Prihláška na vysokoškolské štúdium - 3. Stupeň. The application form is available in electronic form on the website of the Ministry of Education, Science, Research and Sports of the Slovak Republic. The application form can also be purchased at SEVT print shops. Electronic application form can also be found on the university website: <https://vzdelavanie.uniza.sk/prijimacky/index.php> or on the education portal: <https://prihlaskavs.sk/sk/>.

Application forms are accepted/can be sent:

- **personally** at the registry office of the University of Žilina in Žilina (room number AA021),
- **by post** at the address: Žilinská univerzita v Žiline, Fakulta PEDAS, Referát pre vedu a výskum, Univerzitná 1, 010 26 Žilina 1,
- or **electronically** on the UNIZA website <https://vzdelavanie.uniza.sk/prijimacky/index.php> or on the education portal <https://prihlaskavs.sk/sk/>

In case of incomplete application form, applicants will be requested to complete it.

In case of non-participation in the admission procedure or a failure in the admission procedure, the Faculty does not refund the admission procedure fee.

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

1. Curriculum Vitae<sup>3</sup>,
2. certified copies of the highest level of education completed (Diploma on completion of university education of the 2nd degree, certificate on state examination, Diploma Supplement),
3. list of published professional and scientific papers (in case the applicant has published so far),
4. other evidence indicating any professional activities,
5. proof of payment of the admission fee,
6. a document on the recognition of education by the relevant higher education institution in the Slovak Republic (it applies to foreign and Slovak applicants who have completed university study of the 2nd degree abroad, it does not apply to the Czech Republic).

<sup>3</sup> In CV, the applicant shall also indicate, inter alia, the name, surname and maiden name of the student's parents; foreigners indicate the place of residence in the Slovak Republic.

**Admission fee:**

**20 €** - EU citizens,

**50 €** - applicants from non-EU countries, to be sent to:

Žilinská univerzita v Žiline, Univerzitná 1, 010 26 Žilina

Banka: Štátna pokladnica

IBAN: SK81 8180 0000 0070 0026 9888

const. symbol: 0308

variable symbol: 10133 – doktorandské štúdium.

**Payment method:** payment can be paid by bank transfer or postal order to the account above.  
**Proof of payment:** proof of payment is to be sent to the Faculty with the application form.

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

With payment of the admission fee from the EU member states, the EES countries, territories that are considered a part of the EU (Treaty of Rome, Section 299) and SEPA countries, it is necessary to use BIC: **SPSRSKBAXXX**, IBAN: **SK81 8180 0000 0070 0026 9888**.



## USEFUL DATES

Open Day	Deadline for submitting the application form	Entrance exams
November, 13, 2020 February, 12, 2021	1 <sup>st</sup> round: until May, 31, 2021 2 <sup>nd</sup> round: until August 13, 2021*	1 <sup>st</sup> round: June, 29, 2021 2 <sup>nd</sup> round: August, 27, 2021*

\* the second round of the admission procedure on available / unoccupied topics can only take place on the basis of a decision of the Dean.



## ACCOMMODATION

Accommodation facilities of the University of Žilina in Žilina offer accommodation according to their capacity.

**Accommodation fee: € 54 – € 61 / month.**



## BOARD

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



## SCHOLARSHIPS

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



## GRADUATE PROSPECTS

### DOCTORAL DEGREE STUDY PROGRAMMES

#### TRANSPORT TECHNIQUE AND TECHNOLOGY

##### (Field of study 3772 Transport)

The employment of graduates is expected in research and development organisations with a transport and economic focus, in state administration, as well as in education as teachers at universities. Graduates of the study programme Transport Technique and Technology, field of study Transport are familiar with scientific methods of research and experimental work in the field of transport systems. They are able to design the models of transport systems and transport processes and with the use of the optimization and simulation methods they can design optimal transport systems and control them in order to ensure required quality of services and minimize operating costs and negative impacts of transport on the environment. Graduates master the scientific methods of analysis of transport requirements and the design of a system of efficient services for operation of these requirements. They have the necessary knowledge in the field of management and telematics, which allow them to design modern solutions based on intelligent transport systems, integrated and multimodal transport systems and so on.

## **POSTAL TECHNOLOGIES**

### **(Field of study 3772 Transport)**

Graduates of the doctoral study are employable in research institutes dealing with the development of new theoretical knowledge as a basis for problem solving of postal practice. They are able to define problems, analyse economic and managerial phenomena and processes in companies, generalize acquired knowledge and contribute to the development of theory and practice in the field of postal technologies. Graduates master the scientific methods of research and development of technological processes in post office – technical and operational parameters, as well as control and normative parameters of postal processes, networks, technology, in the context of humanitarian factor – psychology, sociology, ergonomics. They are also focused on diagnostics, modelling, simulation and optimization of processes and technologies, logistics, circulation processes and quality management in post office, research and development of postal services with a focus on diagnostics, marketing, financial relations, project management, modelling, simulation and optimization of postal services and quality management. They have the necessary knowledge to develop diagnostic and optimization methods and quality management methods in post office. They are able to perform the functions related to strategic decision-making concerning the direction of the postal company. They are employable in research institutes that are dedicated to the development of new theoretical knowledge as a basis for solving problems of postal practice. They can define problems, analyse economic and managerial phenomena and processes in a company, generalize acquired knowledge and contribute to the development of theory and practice in postal technologies.

## **TRANSPORT SERVICES**

### **(Field of study 3772 Transport)**

Graduates of the study programme Transport Services have mastered the principles of scientific work, interconnection between science - research - development – use, including feedback on, for example, impacts of different modes of transport on the environment. They are able to formulate scientific problems, scientific and practical objectives of solutions, hypotheses and to verify their validity by modelling, experimentation and in practice. They are also able to evaluate legal and economic aspects of new transport services, and have the ability to present results achieved at home and abroad through scientific conferences, seminars and scientific and professional journals in order to contribute to the development of the field of study. Moreover, they are able to solve practical problems and apply them in practice. Graduates are expected to start their career path in research and development organisations with a transport and economic focus, in state administration bodies, as well as teachers at universities.

Graduates master the scientific methods of analysis of requirements for transport services and related activities and the design of efficient systems based on current and future customer needs. They have knowledge of individual factors of transport services provided, transport characteristics of individual modes of transport, their advantages and disadvantages and the possibility of using intermodality and in the field of applications of information technologies and telematics in the context of humanitarian factor – psychology and sociology.

## **ECONOMICS AND MANAGEMENT OF ENTERPRISE**

### **(Field of study 6213 Economics and Management)**

Graduates are employable in research workplaces dealing with the development of new theoretical knowledge as a basis for solving problems of business practice. They are able to define problems, analyse economic and managerial phenomena and processes in enterprises, generalize the acquired knowledge and contribute to the development of theory and practice in enterprises. Graduates master the scientific methods of basic and applied research and experimental work in the field of economics and business management. They are able to design economic models of processes in enterprise and control them in order to ensure the required quality of production and minimize operating costs and negative impacts of production on the environment. They can define problems, analyse economic and managerial phenomena and processes in enterprises, generalize acquired knowledge and contribute to the development of economic theory and practice. Graduates of the study programme Economics and Management of Enterprise have acquired a deep theoretical knowledge of economics and management with an emphasis on the area given by the topic of their dissertation and will acquire the principles and methods of scientific work, the ability to apply theoretical knowledge in practice and the ability to present the results of their work in foreign language. They have the knowledge necessary for the creative development of diagnostic and optimization methods and methods of quality management in enterprise. They are able to perform functions related to strategic decision-making concerning the direction of the enterprise.

## **ECONOMICS OF TRANSPORT, COMMUNICATIONS AND SERVICES**

### **(Field of study 6213 Economics and Management)**

Graduates of doctoral study are able to use their knowledge in independent managerial, research and scientific work in the field of economics and management of transport, communications and services, as well as in scientific - pedagogical practice and scientific research practice. Graduates of the study programme Economics of Transport, Communications and Services master the scientific methods of research, evaluation, forecasting and planning of the development of relevant sectors and experimental work in the field of economics and management of transport and communications systems and services. They are able to design economic models of processes in transport, communications and services and to manage them in order to ensure the required quality of services and to minimize operating costs. They can process and evaluate analyses of interactions with all elements of the social environment in which the sectors in question perform their functions, e.g. in the form of elimination of negative impacts of transport and communications on the environment.

Graduates master scientific methods of research and creation of their own solutions, e.g. modelling of demand and supply in transport, communications and services and they are able to design a system of efficient services to meet these requirements. They have the necessary knowledge in the field of management and innovation management – they examine and create new knowledge about economic processes and their optimal management in transport, communications and services. Graduates will master the methodology of scientific research work and they will deepen their theoretical knowledge and ways of their use in practice in one of the following areas: railway transport economics, air transport economics, economics of road and urban transport, economics of communications, economics of services.