



**FACULTY OF OPERATION AND ECONOMICS  
OF TRANSPORT AND COMMUNICATIONS  
DOCTORAL DEGREE STUDY**

# UNIVERSITY OF ŽILINA

## Faculty of Operation and Economics of Transport and Communications

### CONTACT

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**All the questions concerning your studies will be attended at the Department of Studies:**

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## ACCREDITED STUDY PROGRAMMES OFFERED FOR THE ACADEMIC YEAR 2019/2020

DOCTORAL DEGREE STUDY PROGRAMMES	
FULL-TIME	PART-TIME **
LENGTH OF STUDY 3 YEARS	LENGTH OF STUDY 4 YEARS
Transport Methods and Technology *	Transport Methods 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 *
<i>* study programme is also available in the English language</i>	
<i>** standard tuition fee for part-time study programmes is 2 000 € for an academic year</i>	

**Detailed information about particular study programmes:**

- syllabus,
- course information sheets

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



## EXPECTED NUMBER OF ACCEPTED APPLICANTS TO THE FIRST YEAR

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



## TERMS AND CONDITIONS OF ADMISSION

### 1. No entrance exams

- all applicants have to attend the selection procedure – entrance exams.<sup>1</sup>

### 2. Selection Procedure – Entrance Exams

**The fundamental prerequisite** of being accepted to the doctoral degree study (the third degree) is the full completion of the second degree of the university study.

**A necessary prerequisite** is to submit the application form for university studies (doctoral degree study – third degree) within the deadline stipulated in "Academic Calendar for Doctoral Studies".

**Further admission requirements** for doctoral studies are:

- a) the full completion of the second degree of the university study (Engineer (Ing.), Master's degree study, ...) in the same or related field of study 1 (in the case of applicants for the part-time form of study, the Faculty takes into account their abilities and eligibility resulting from the focus of their practice for a period of at least two years)
  - b) successful completion of entrance exams.
3. **Health certificates** – the faculty does not require any health certificates and accepts all the applications without health certificates.

<sup>1</sup> A list of related fields of study can be found at: <http://https://www.portalvs.sk/sk/studijne-odbory> in „description“ of respective field of study.



## FORMS OF ADMISSION

### Rules of Selection Procedure

The entrance examination is carried out in front of the Selection Committee in the given study programme. The Committee submits a recommended proposal of successful candidates for the Dean's approval. The final decision about the results of entrance exams and acceptance is made by the Dean of the Faculty within 30 days from the date of the entrance examination. The content of the entrance examination is:

- **written exam** in the form of a test from one chosen foreign 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 candidate in the area he / she applies for, including the statement of reasons for choosing the topic and methods that he / she intends to use in solving the topic, as well as expected conclusions of the work.

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



## ADMISSION OF FOREIGN STUDENTS

The same 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 for the respective academic year and can be found on the university website.

Students from abroad who study in the Slovak language do not have to pay the tuition fee. Applicants from the Czech Republic can use the application form available 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 for Foreigners 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.



## HOW TO APPLY

**Application forms are to be submitted for individual study programmes and the topics of doctoral theses are available at [www.fpedas.uniza.sk](http://www.fpedas.uniza.sk) – Študenti – Doktorandské štúdium ([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 Department of Science and Research, Faculty of Operation and Economics of Transport and Communications/PEDAS, room number 251, building BF – Veľký diel,
- **by post:** Žilinská univerzita v Žiline, Fakulta PEDAS, referát pre vedeckovýskumnú činnosť, Univerzitná 1, 010 26 Žilina.
- or **by an electronic form** on the university website: <https://vzdelavanie.uniza.sk/prijimacky/index.php> or on the education portal: <https://prihlaskavs.sk/sk/>.

Even in case of electronic application form, it is required to print it, sign it, enclose other required documents including the proof of payment of the fee and send it to the address of the Faculty of Operation and Economics of Transport and Communications UNIZA within the stipulated deadlines.

Incomplete application form or the application form sent after the deadline will not be accepted.

In the absence or failure of entrance exams, the faculty does not refund the admission fee.

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

1. Curriculum Vitae<sup>3</sup>,
2. certified copies of the documents of the highest level of education completed (diploma on completion of university education of the 2nd degree, certificate on state examination, the Diploma Supplement),
3. a list of published professional and scientific papers (in case the applicant has published so far),
4. other evidence indicating any professional activities,
5. the 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 studies of the 2nd degree abroad, it does not apply to the Czech Republic).

### Admission fee:

30 € - EU citizens,

50 € - applicants from non-EU countries

Is to be sent to:

Žilinská univerzita v Žiline, Univerzitná 1, 010 26 Žilina

Bank: Štátna pokladnica

IBAN: SK81 8180 0000 0070 0026 9888

const. symbol: 0308

variable symbol: 10133 – doctoral study

### 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.

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**.

**Tuition fees** - in accordance with the Higher Education Act, information about the amount of tuition for the respective academic year will be announced on the website of the University of Žilina.

<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.



## USEFUL DATES

Open Day	Deadline for submitting the application form	Entrance exams
November, 9, 2018 February, 15, 2019	until May, 31, 2019	June, 21, 2019



## ACCOMMODATION

Accommodation facilities of the University of Žilina offer accommodation according to their capacity. Student accommodation facilities cost approx.: **70 € - 140 € per month**.



## BOARD

Students can use services of catering facilities of the University of Žilina in Žilina. **Price for food: 9 € per day**.



## 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 STUDY PROGRAMMES

### TRANSPORT METHODS AND TECHNOLOGY

#### (Field of study 5.2.59 Transport)

Graduates are expected to find career in research and development organisations with transport and economic focus, in state administration, as well as in education as teachers at universities.

Graduates of the study programme Transport Methods 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 the operating costs and negative impacts of transport on environment. Graduates have knowledge of scientific methods of analysis of requirements connected with transport and design of efficient services for operation of these requirements. They have the necessary knowledge in the field of management and telematics which enable them to design modern solutions based on intelligent

transport systems, integrated and multimodal transport systems and, etc.

## **POSTAL TECHNOLOGIES**

### **(Field of study 5.2.60 Postal Technologies)**

Graduates are employable in research institutions dedicated to the development of new theoretical knowledge as a basis for problem solving of postal practice. They are able to define problems, to analyse the economic and managerial phenomena and processes in enterprises, to generalize the obtained knowledge and to 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, techniques, in the context of humanitarian factor – psychology, sociology, ergonomics. They are further focused on diagnostics, modelling, simulation and optimization of processes, 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 associated with strategic decision-making concerning the direction of postal undertaking.

## **TRANSPORT SERVICES**

### **(Field of study 8.2.1 Transport Services)**

Graduates in Transport Services have obtained and master the principles of scientific work and are aware of interconnection among Science - Research - Development – Application, including feedback, for example, of 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 simulation and experimentation in practice, to evaluate legal and economic aspects of new transport services, and they master skills of presenting achievements at home and/or abroad at scientific conferences, seminars and in scientific and professional journals with the aim of contributing to the development of their 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 transport and economic focus, in state administration, as well as in education as teachers at universities.

Graduates have knowledge of scientific methods of analysis of requirements connected with transport services and related activities and 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 possibilities of using intermodality, application of information technologies and telematics, in the context of humanitarian factor – psychology and sociology.

## **ECONOMICS AND MANAGEMENT OF ENTERPRISE**

### **(Field of study 3.3.16 Economics and Management of Enterprise)**

Graduates are employable in research institutions dedicated to the development of new theoretical knowledge as a basis for problem solving of corporate practice. They are able to define problems, to analyse the economic and managerial phenomena and processes in enterprises, to generalize acquired knowledge and to 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 economy and enterprise management. They are able to design the economic models of processes in enterprise and control them in order to ensure required quality of production and minimize the operating costs and negative impacts of production on environment.

Graduates of this field of study have acquired deep theoretical knowledge from economics and management with an emphasis on the area connected with a topic of their dissertation. They have got familiar with the principles and methods of scientific work, ability to apply theoretical knowledge in practice and 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 the functions associated with strategic decision-making concerning the direction of enterprise.

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

### **(Field of study 3.3.11 Branch and Sector Economy)**

Graduates are able to use their knowledge in individual managerial, research and scientific work in the field of economics and management of transport, communications and services, as well as in scientific - educational practice and scientific research practice.

Graduates of the study programme Economics of Transport, Communications and Services, field of study 3.3.11 Branch and Sector Economy masters the scientific methods of research, evaluation, forecasting and planning of development of objective branches and experimental work in the field of economics and management of transport and communication systems and services. They are able to design the economic models of processes in transport, communications and services and manage them in order to ensure the required quality of services and to minimize the operating costs. They can process and evaluate the analyses of interactions with all components of social environment within which objective branches perform their functions, e.g. in the form of elimination of negative impacts of transport and communications on environment.

Graduates have knowledge of scientific methods of research and creation of 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 of management and innovation management – they examine and create the new knowledge concerning economic processes and their optimal management in transport, communications and services. The graduates will master the methodology of scientific research and they will deepen their theoretical knowledge and ways of their use in practice in one of the following areas: rail transport economics, air transport economics, economics of road and urban transport, economics of telecommunications, economics of services.