UNIVERSITY OF ŽILINA

Faculty of Management Science and Informatics

MASTER´S DEGREE STUDY

CONTACT

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ACCREDITED STUDY PROGRAMMES OFFERED FOR THE ACADEMIC YEAR 2027/2028

MASTER´S DEGREE STUDY PROGRAMMES	
FULL-TIME STUDY	**PART-TIME STUDY**
LENGTH OF STUDY 2 YEARS	LENGTH OF STUDY 2 YEARS
Applied Informatics *	-
Biomedical Informatics *	-
Intelligent Information Systems *	-
Applied Network Engineering *	-
Information Management	-
Computer Engineering *	-

** study programme is taught in the Slovak language or in the English language*

Detailed information about the study programmes:

- curriculum,
- course information sheets

EXPECTED NUMBER OF ADMITTED STUDENTS FOR THE FIRST YEAR

MASTER´S DEGREE STUDY		
STUDY PROGRAMME / FIELD OF STUDY	**PLANNED CAPACITY**	
	PART-TIME	**FULL-TIME**
Applied Informatics / Informatics	80	-
Biomedical Informatics / Informatics	40	-
Intelligent Information Systems / Informatics	40	-
Applied Network Engineering / Informatics	40	-
Information Management / Economics and Management	80	-
Computer Engineering / Informatics	40	-
TOTAL	320	-

ADMISSION REQUIREMENTS

The fundamental admission requirement

The fundamental admission requirement for the Master‘s degree study (graduate study programmes) is the full completion of the first degree of higher education (Higher Education Act, No. 300/2025 Coll. as amended; hereinafter only referred to as “Higher Education Act“). In the case of a foreign applicant or a students whocompleted their study abroad, they shall submit the nostrification of study recognized by a relevant institution in the Slovak republic, along with the application form no later than on the date of enrolment or they can ask UNIZA to have their Bachelor’s degree recognized.

Other conditions of admission

1. No entrance examination

Those applicants who successfully completed the specified subjects (or their equivalent according to the course information sheets) during their Bachelor‘s degree study may enclose a written request to waive the entrance examination. to the Dean of the Faculty They find the template on the website of Faculty of Management Science and Informatics of UNIZA.

2. Entrance examination

Other Bachelor‘s degree graduates who do not meet the criteria for admission without entrance exams will be admitted according to a ranking based on the weighted study average of the Bachelor‘s degree study (the classification of entrance examination subjects is included as well) until the capacity of the faculty is fulfilled.

During the entrance examination, knowledge within a range of subjects specified for each Master´s degree study programme will be checked in a form of a test. The specified subjects for the entrance examination for the first year are the following:

STUDY PROGRAMME	PRESCRIBED SUBJECTS
Applied Informatics Biomedical Informatics Intelligent Information Systems	6UA0002 Probability and Statistics 6UI0004 Algorithms and Data Structures 1
Computer Engineering	6BI0025 Computer Engineering
Information Management	6UM0008 Management 1
Applied Network Engineering	6BI0026 Computer Networks 1 6BI0027 Computer Networks 2

Terms of the admission procedure

After the deadline for submitting the application forms, the Faculty will send the invitation letter for the entrance examination to all the applicants , containing a detailed information about the entrance examination, as well as the number of the room in which they will take the entrance examination.

After the registration the applicant will take a test of the specified subjects for their Master´s degree study programme within the set time limit. The results will be published on the day of the entrance examination on the website http://vzdelavanie.uniza.sk/prijimacky/. The candidates will gain access to their results by entering their surname and the identification code. The Dean's Office will send a written decision on the result of the entrance examination to the applicants by 31 July 2027.

Students who will fail at the entrance examination can be admitted to a three-year conversion Master´s degree study programmes. Applicants are admitted without entrance examination to a three-year conversion Master´s degree study programmes based on the weighted study average of their Bachelor's degree study results.

ADMISSION OF FOREIGN STUDENTS

Foreign applicants have the same admission requirements as the Slovak applicants.
Foreign students who study in a different language other than Slovak, pay the tuition fee as stated in the Higher Education Act. **The tuition fee is specified by the UNIZA guidelines and published for the respective academic year on the University website. Foreign applicants (except for applicants from the Czech Republic) who want to study in the state language are required to pass a Slovak language test with at least a B1 level, with an overall grade A, B, or C**. The language test is conducted on specific dates published on the website of the Institute of Lifelong Learning UNIZA, and successful completion of the test is a condition for admission to the study. The Slovak language test must be taken no later than the admission procedure deadline – 27 May 2027 – and foreign applicants may only take it once during the calendar year of the admission procedure. Only applicants who passed it successfully, will be admitted for study at the faculty. When the applicant passed his/her test successfully at the Institute of Lifelong Learning in the past with at least a B1 level, with an overall grade A, B, or C, we will accept that result. Foreign students who study in the Slovak language do not have to pay the tuition fee. Applicants from the Czech Republic can use the form valid in the Czech Republic to submit their application form for study. For foreign applicants who were admitted on the basis of intergovernmental agreements, bilateral agreements or Slovak government grants, terms and conditions stated in the respective documents are applicable.

APPLICATION FORM

If the applicant would like to apply for more than one study programme, they shall submit just one application form in which they indicate the preferences of the study programmes They only pay one admission fee.
Applicants fill in the application form Prihláška na vysokoškolské štúdium – 2. stupeň *(Application form for graduate university study)* or they can use an electronic application form. The electronic application form is accessible on the UNIZA website: https://vzdelavanie.uniza.sk/prijimacky/ or on the Portal VS (University Portal): https://prihlaskavs.sk/sk/. In the case of the electronic application form it is necessary to follow instructions as specified in the system of Electronic Application Form.

Attachments to the Master's degree application form:
Graduates from the Faculty of Management Science and Informatics UNIZA:

- proof of payment of the admission fee,
- completed form for projects of the Master´s degree study,
- request for waiving the entrance examination where the applicantshave successfully passed the specified subjects during their Bachelor study.

Graduates from other faculties:

- proof of payment of the admission fee,
- preliminary transcript of records confirmed by the study affairs department of a respective faculty
- request for waiving the entrance examination where the applicants have successfully passed the specified subjects during their Bachelor study.

Graduates from other faculties are obliged to deliver or send by post a verified copy of the certificate of successful completion of the Bachelor´s degree study, a diploma supplement and a final list of the subjects to the Study Affairs Office no later than 30 June 2027.

Admission fee:

€ 20 to be sent to: Žilinská univerzita v Žiline, Univerzitná 1, 010 26 Žilina

Bank:	Štátna pokladnica
IBAN:	SK96 8180 0000 0070 0026 9909
Cons. symbol:	0308
Variable symbol:	10532 – Master's study

Payment method: The payment can be made by a bank transfer or postal order to the above account.

Proof of payment: In case of a paper application form the proof of payment should be sent to the address of the faculty with the application form; in case of an electronic application form the scanned copy of the proof of payment will be uploaded in the system of Electronic 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: SK96 8180 0000 0070 0026 9909**.
If applicants refuse to take an examination test or fail, the admission fee is non-refundable.

USEFUL DATES

Open Day	ONLINE[1] Open Day	Deadline for submitting the application form	Entrance examination
11 February, starting at 10:00	18 November 2026 from 16:00 to 21:00 10 March 2027 from 16:00 to 21:00	until 31 March 2027	27 May 2027

[1] *Access to the ONLINE Open Day will be via application on the website of the Faculty http://www.fri.uniza.sk.*

ACCOMMODATION

The accommodation facilities of the University of Žilina provide accommodation according to the accommodation capacity, taking into account the distance between the students' permanent residence and the University. **Monthly accommodation fee: € 59 – € 134**.

CATERING

Students can use the services of the catering facility of the University of Žilina. **Price for food: € 1.10 – € 4.70**.

SCHOLARSHIPS

Students of all study programmes can obtain motivational scholarships (for excellent results or exceptional achievements) in accordance with the stated criteria. **Students of the study programmes Applied Informatics, Biomedical Informatics Intelligent Information Systems, Applied Network Engineering and Computer Engineering can obtain motivational field studies scholarships in accordance with the stated criteria.**

FOLLOW-UP STUDY AFTER COMPLETION OF MASTER´S DEGREE STUDY

There is an opportunity to apply for Doctoral degree study programmes at the Faculty of Management Science and Informatics UNIZA in the academic year 2027/2028 – **Applied Informatics**, **Management** (the respective information on particular study programmes can be found on the university website).

ADDITIONAL EDUCATIONAL ACTIVITIES

During their studies students have the opportunity to obtain various certificates for free. E.g.: CISCO IoT focused on using IoT technologies in businesses or ADONIS for the effective management and modelling of business processes within an organization (Business Process Management – BPM) and ADOIT for Enterprise Architecture Management (EAM), both developed by BOC Group, as well as SAP certifications for various areas of enterprise resource management.

GRADUATE EMPLOYABILITY

MASTER´S DEGREE STUDY PROGRAMMES

APPLIED INFORMATICS

(Field of study 2508 Informatics)

The Master‘s degree study programme in the field Applied Informatics prepares graduates for solving complex issues in research, development, design and implementation of modern software, information, and computer systems. Graduates are able to independently design innovative solutions, implement them in practice, and effectively present the results of their work. During their studies, they shall acquire advanced knowledge of informatics, software engineering, data analytics, artificial intelligence, computer networks, and decision support systems. They are prepared to design, develop, implement and run large-scale applications and information systems, as well as manage their future development and optimization.

Depending on their chosen specialization, they have at their disposal knowledge needed for the development of intelligent systems using optimization methods, machine learning, uncertain data processing, and advanced analytical tools. At the same time, they gain the basics of modern computing paradigms, including quantum informatics, which is used in solving computationally intensive tasks in the optimization or modeling fields, in cryptography, or in big data processing. Graduates find employment as software architects, system analysts, data scientists, intelligent systems developers, artificial intelligence specialists, information and communication technology specialists, consultants, or project managers.

They work in software companies, technology centers, industrial enterprises, banking, healthcare, transport, public administration, research organizations, and in education.

Thanks to their broad professional foundation and their ability to adapt rapidly to new technologies, graduates are prepared to work on emerging fields, such as artificial intelligence, data analytics, cybersecurity, cloud engineering, and quantum computing. The competencies they acquire allow them to take on both professional and managerial positions, continue with doctoral studies, or develop their own entrepreneurial activities in the field of information technologies.

BIOMEDICAL INFORMATICS

(Field of study 2508 Informatics)

Graduates of the programme will gain knowledge of Informatics and its applications in Medicine and Biomedicine. They will be able to find a job at various levels of management and development in industrial, software businesses and other companies in public or private sector focusing on medical data analysis, designing of biomedical information systems and software development for processing of medical and biomedical data. They will gain knowledge necessary for the production of complex information systems and will have an overview of typical problems in software development for medicine used in healthcare and biomedical laboratories. Thanks to that knowledge they will be able to design, develop, implement, enlarge, modify and localize large information systems for general use as well as for specific medical purposes.

INTELLIGENT INFORMATION SYSTEMS

(Field of study 2508 Informatics)

Graduates of Intelligent Information Systems programme will gain advanced knowledge of Informatics and the tools supporting decisions which use modelling facilities like machine learning, computer simulation and optimalisation. They are able to use modern information technologies at different levels of management in software companies, industry, banking, transport, medicine, education, ecology and other fields. They will be able to find a job as developers of application software, system analysts and programmers, to run their own business or to apply for doctoral studies.

APPLIED NETWORK ENGINEERING

(Field of study 2508 Informatics)

Graduates of the programme will gain advanced theoretical knowledge and practical skills in operation of information and communication systems, network technologies and infrastructure, design and communications network planning, system and network virtualization, integration and network security, and design of programme equipment for computer and network systems. They are prepared to adapt and respond to the latest trends and technologies, they will have developed skilled to work as individuals or in a team. Graduates are prepared to carry out suggestions and implementation of networks and their security, maintenance, operation and development of advanced information and communication systems, cloud and security solutions based on the requirements and trends. They are prepared to communicate with architects, developers, administrators and network-network security specialists, community of professionals and users of information and communication solutions and suppliers. They will be able to find a job in domestic and international job markets, at different levels of management in public or private sector in software and telecommunication companies, industrial companies, in education, banking, transport, medicine and environmental businesses. Primarily they will be successful in finding a job in companies focusing on suggestions and administration of information and communication solutions (company networks, internet providers' networks, data centre solutions) and the areas of technologies related to them, for examples (suggestion and administration of network systems, virtual and cloud solutions, application of communication system security, TAC support). The most popular are positions like cloud and DevOps engineers, network and sound engineers, system engineers, system and technology consultants/specialists, software developers and engineers. Later they can become team leaders, architects and consultant specialists.

MANAGEMENT

(Field of study 6213 Economics and Management)

A graduate of the second cycle of information management study programme has complex knowledge in selected fields of management, marketing, information technology, and economics. Graduates are able to apply the acquired knowledge in practice, and they are ready to pursue third-cycle higher education studies. Graduates are professionally competent to holistically identify, analyze and assess existing problems and processes in an organization and within the market in which the company operates. They are able to analyse situations and the organizational environment using appropriate methodologies and to work with the information obtained within the tactical and operational management of an organization. They can identify possible dangers and risks within an organization and discover appropriate solutions. Graduates are able to follow and understand individual managerial, marketing, and economic business processes. They are able to assess and predict situations in internal and external company environment from both managerial and economic perspectives. They possess knowledge in the field of analysis, creation, and implementation of business plans at various organizational levels. They are able to actively work with modern company IT systems when processing and evaluating data, they can identify cybernetic threats, and apply appropriate measures for their mitigation. Using IT, they are able to organize, plan, control, and keep communication within both the internal and the external company environment. They have knowledge of human resource management, which they can apply to lead and motivate employees. They are independent and critical thinkers capable of adapting to current trends and new globalization tendencies.

COMPUTER ENGINEERING

(Field of study 2508 Informatics)

The graduate of this study programme is a technologically oriented IT professional with a foundation in the field of computer systems, computer networks, operating systems, programming, cloud and virtualization techonologies, embedded systems, IoT, and cybersecurity. This study program prepares the students to understand both the software side of IT systems, and the technical infrastructure on which these systems operate. The graduate is able to analyse technical requirements, design and implement small-scale ICT solutions, configure and administer selected software and system components, work with virtualization and cloud tools, create appropriate software solutions, and verify their functionality. The graduate has basic knowledge concerning security risks, solution documentation, and team work. Students may specialize in the area of networking or information technologies. Graduates prepared to take on technical roles in network administration, system administration, cloud and virtualisation solutions support, development of small-scale software solutions, technical support of ICT systems, and basic security operations.