

Business Informatics Master's program

training program

For students who start in the fall semester of 2025/2026



Business Informatics Master's program

Valid: For students starting their studies in the 2025/2026/1 semester General Informations: Person responsible for the major: dr. Zoltán Szabó, associate professor Place of the training: Budapest Training schedule: full-time Language of the training: English

Is it offered as dual training: no

Specializations:

- 1. Name of specialisation: Business Analyst & Governance
- 2. Name of specialisation: Data Analytics
- 3. Name of specialisation: Digital innovation

Training and outcome requirements:

- 1. Master's degree title: Business Informatics (gazdaságinformatikus)
- 2. The level of qualification attainable in the Master's programme, and the title of the certification
- qualification level: master- (magister, abbreviation: MSc)
- qualification in Hungarian: okleveles gazdaságinformatikus
- qualification in English: Business Informatics Engineer
- 3. Training area: informatics
- 4. Degrees accepted for admittance into the Master's programme
- 4.1. Accepted with the complete credit value: business informatics undergraduate degree.

4.2. May be primarily considered with the completion of the credits defined in section 9.4: Computer Science Engineer, Computer Scientist, and Computer Science Operational Engineering undergraduate degrees.

4.3. May also be considered with the completion of the credits defined in section 9.4 are completed: undergraduate and Master's courses as well as courses defined in Act LXXX of 1993 on higher education that are accepted by the higher education institution's credit transfer committee based on a comparison of the studies that serve as the basis of the credits.

5. Training duration, in semesters: 4 semesters

- 6. The number of credits to be completed for the Master's degree: 120 credits
- degree orientation: balanced (40-60 percent)
- thesis credit value: 30 credits
- minimum credit value of optional courses: 6 credits
- 7. International Standard Classification of Education field of education code: 481
- 8. Master's degree training objectives and professional competences

The objective of the programme is the training of Business Informatics Engineers capable of understanding complex business processes, uncovering issues, and developing alternative solutions. They are capable of recognising expectations towards IT systems that support value-creating processes, of developing applications and managing finished applications, and of performing and coordinating research and development tasks. They are prepared to continue their training at the PhD level.

8.1. Attained professional competences

8.1.1. The Business Informatics Engineer has

a) knowledge

- Possesses a mastery of English that is sufficient for the training, reading technical literature in English, understanding and processing technical texts, and performing the professional tasks that may be performed with the field of education, and constant professional self-improvement.

 Knows and understands the company's system of activities, the concepts of value chain and supply chain, the principles of processoriented management, the process of corporate strategy development.

- Knows and understand relationships between corporate functions, including the primary concepts and processes regarding marketing, finance and accounting, human resource management, innovation management, and value-creating process management.

- Possesses detailed knowledge regarding information systems, understands the principles and methods of architecture-development.

- Knows the principles and development methods of business, information, and data architecture, the main interrelationships of implementation, and change management tasks.

- Understands the connections between information and business architecture and is capable of mapping business needs to IT requirements.

- Knows the basic characteristics of the various layers of information architecture (transaction processing, operative support, decision support, group work, work processes) and their interrelationships.

- Possesses detailed knowledge regarding all fields of information management, including the conceptual system and interrelationships of informatics strategy, process management, system organisation, knowledge management, IT service management, project management, risk management, performance management, IT asset management, IT safety and IT audit.

- Possesses a comprehensive knowledge regarding regulation issues and problems of information society, including the interpretation of various fields (media, telecommunication, economy), and IT law respects.

- Is aware of global trends, the limits of the scientific field in his/her IT specialisation, its role in IT and social innovation, and the resulting new requirements.

- Knows the methods of solving issues related to the fields of applications and the methods, processes, and limits of the tasks that aim to solve them.

- Knows and understands the concepts, interrelationships, applications, and limits of statistics and computer science. **b)** skills

- Plans and manages the development of IT applications and methods that solve real business and organisational issues.



Is capable of understanding and analysing business processes, exploring the software applications that help execute them, and adapting them to business-organisational requirements.

Is capable of utilising system development principles and methods, and managing the execution of developmental tools (business modelling and the tools of computer-supported development).

Is capable of performing tasks related to planning, creating, and managing databases.

Is capable of adapting economy applications, initiating the organisational changes necessary for the implementation of IT applications, eveningmating introduction risks and planning measures to eliminate them, and of cooperation in execution.

Is capable of managing the IT unit of an organisation, if needed, outsources IT tasks.

- Is capable of applying the learned methods to handle operational risks
- Is capable of planning and managing development projects and uncovering various organisational solutions in IT-related tasks.
- Cooperating with and IT auditor, is capable of ensuring the conditions and controls of processes.
- Is capable of uncovering and communication business opportunities in IT applications
- c) attitudes
- Monitors professional and technological development regarding the IT and corporate (public administration, public service) fields.
- Utilises a critical viewpoint, a new view, new solutions and methodologies in his/her specialist field and scientific field.

Uses scientific arguments for the necessary innovation while planning and leading research and development. Considers mediating professional results between the representatives of the IT field and other representatives of the application field

Accepts and develops work and organisational culture, consequently endorses professional ethical principles related to IT security.

- Is dedicated to observing and enforcing quality requirements.
- Respects differing opinions, strives for convincing others with professional arguments.
- Considers conveying and realising environmentally conscious behaviour important.

Takes on an active, managerial role in projects and in task-oriented work groups, constantly develops his/her own project management skills and abilities, and focuses on shared success in initiatives and decisions.

autonomy and responsibilities

Performs his/her tasks, thinks through and develops professional issues in an independent IT job, in an appropriate, but selfdecided way.

Feels responsibility to adhere to and enforce deadlines.

Takes responsibility for his/her own work and the work of any colleagues working with him/her (in the same projects).

- Manages critical IT systems with a developmental and operational responsibility.
- About the Master's programme 0.
- 9.1. Professional properties

The scientific fields and areas that the training is based on are: 9.1.1.

natural science and economy studies (Computing Science, Operation Research, Multivariate Statistics, Management Control, Strategy, Managerial Accounting) 18-30 credits;

business informatics professional studies (Software Engineering, Network Technologies, Security, System Development, Data Mining, Data Warehousing, Corporate Architecture, Informatics Strategy, Process Management) 20-25 credits.

9.1.2. Considering optional specialisations, specialist knowledge learned in specialist fields appropriate for the requirements of the informatics profession. The credit value of specialisation recommended by the training institution is 25-50 credits.

9.2. Internship requirements

The internship is a professional training that contains at least 240 certified work hours that lasts for at least 6 weeks defined by the curriculum of the higher education institution.

Defined in the Study and Examination Regulations.

9.3. For persons with degrees defined in sections 4.2 and 4.3, the minimal requirements of admittance to the Master's programme training cycle

9.3.1. For those with degrees defined in sections 4.2 and 4.3 - except for holders of Computer Science Operational Engineering undergraduate degrees as per section 4.2 - the minimum number to enter the Master's training cycle of credits is 70 from the following fields:

10 credits from the fields of natural science studies (Analysis, Probability Theory, Statistics, Operation Research, Mathematics, Computer Science);

20 credits from the fields of economic and human studies [Economics, Corporate Economics, Finance, Legal Studies, European Union Studies, Management, Management Theory (Decision Theory, Methodology) Studies];

40 credits from the fields of informatics studies (Computer Architectures, Operating Systems, Computer Networks, Programming Theory, Programming Languages, Program Design, Database Management, IR Architectures, Development, and Management, Quality Assurance, Integrated Developmental Tools, Development Support, Informatics Audit, Integrated Corporation Management Systems, Special Applications).

The prerequisite of admittance into the Master's programme is for the student to have at least 40 credits in the listed area based on his/her undergraduate studies. Missing credits must be attained in the Master's programme as defined in the higher education institution's Study and Exam Regulations.

9.3.2. For entering the Master's programme with a Computer Science Operational Engineering undergraduate degree, a minimum of 60 credits is necessary from the following subject areas:

introduction to natural sciences (Analysis, Statistics, Operational Research) 10 credits, economic and human studies (Economics, Financial Studies, Accounting, Controlling) 20 credits;

informatics studies (Computer Architectures, Databases, Business Intelligence, Corporate Management Systems, Quality Assurance, IT Audit, System Development) 30 credits.

The prerequisite of admittance into the Master's programme is for the student to complete 60 credits in the listed fields of study in parallel with the Master's programme, in the first two semesters after admittance, as defined in the higher education institution's Study and Exam Regulations.



10. Degree thesis/ Dissertation

The aim of the dissertation is to certify the student's knowledge and expertise in a chosen topic, scientific data collection, systematization, analysis and processing related to the chosen topic, discussion of the chosen phenomenon or problem, hypothesis creation, problem solving, analysis of alternative hypotheses, analysis and in refuting the counter-arguments, in a coherent, consistent, language-oriented written explanation of his thoughts, views, positions, statements.

11. Type of Degree thesis

- a) Research thesis.
- b) Project thesisc) Artistic thesis.
- 12. Requirements for the issue of a final certificate

The University will issue a final certificate to the student who has obtained

- the study and examination regulation prescribed in the curriculum, and
- the required internship (professional experience),
- the required credits.

13. Conditions for admission to the final examination

Joint conditions for admission to the final exam: a) obtaining a final certificate,

- b) submission of the dissertation by the deadline,
- c) evaluation of the dissertation by the deadline,evaluation of the dissertation with a different grade than the deadline,
- d) registration for the final exam by the deadline,
- e) the student has no overdue payment debt to the University for the given training,
- accounted for with assets owned by the University (borrowed books, sports equipment, etc.).
- A student who has not fulfilled any of the provisions of the points a)-f) cannot be admitted to the final examination.

14. Parts of the final exam

The final exam consists of the defense of the dissertation and the written complex exam.

15. Topics for the complex exam

- The subjects of the complex exam:
- Software Engineering
- Information Systems Driving Digital Transformation

specializáció tárgyai

16. Determining the result of the final exam

The arithmetic mean of the following three digits, rounded to two decimal places:

- a) The grade given to the dissertation by the reviewer(s) determined with a five-point qualification in case of several reviewers the average of the marks of the reviews is rounded to two decimal places, and
- b) the grade obtained for the defense of the dissertation, the answer to the questions related to the dissertation established with a five level qualification
- c) the grade obtained in the complex examination determined with a five-level qualification.
- 17. Components of diploma qualification, method of calculation
- The result of the diploma is the arithmetic mean of the following two digits, rounded to two decimal places:

a) the credit-weighted average of the marks of the compulsory and compulsory elective subjects (if the student has taken more than the compulsory elective subjects, then all the subjects taken) in the amount of credits prescribed in the curriculum, and

b) the result (grade) of the final examination.

18. Conditions for issuing a diploma

A prerequisite for the award of a diploma certifying the completion of higher education studies is the successful completion of the final examination.



MNGINF24ABP - Business Informatics master programme in Budapest, in English, full time training Curriculum for 2025/26/1 fall sem Number of 2025/26 2026/27 Evaluation Fall or Requireme classes per Credits Academic year Academic year [ype Institute Subject Code Subject Name week Spring Credit Subject leader *ectu* Semester 'n. Code Fall Fall Spring Spring **Core courses** 24 12 12 0 0 Institute of Data Analytics and 2 Csaba Csáki INIR033NAMB Software Engineering С 2 6 pg Fall 6 Information Systems Information Systems Driving Digital Institute of Data Analytics and С ADIN129NAMB Fall 6 Zoltán Szabó 2 2 6 ex Transformation Information Systems Zsolt György Institute of Data Analytics and ADIN135NAMB Information Technology and Law С 2 2 6 ex Spring 6 Balogh Information Systems Institute of Data Analytics and INIR061NAMB **Business Intelligence** 6 Andrea Kő С 2 pg Spring 2 6 Information Systems IT module, complete at least 12 credits 6 6 0 0 12 Institute of Data Analytics and Process Management and ERP Katalin Ternai INIR060NAMB CE 2 2 Fall 6 6 pg Information Systems Institute of Data Analytics and INIK005NAMB E-Business CE 2 Fall 6 Róbert Pintér 2 ex 6 Information Systems Institute of Data Analytics and ADIN048NAMB IT service management CE 2 2 ex Fall 6 Zoltán Szabó 6 Information Systems Szabina Eszter Institute of Data Analytics and ADIN049NAMB Network Technologies CE 2 2 6 ex Spring 6 Fodor Information Systems Institute of Data Analytics and Krisztián Varga 293NBISK604M IT Security CE 6 2 2 6 ex Spring Information Systems Business module, complete at least 12 credits 6 6 0 0 12 András Olivér KOZG075NAMB Managerial Economics CE 2 2 6 ex Fall 6 Institute of Economics Németh Institute of Marketing and MARK073NAMB Marketing Management CE 2 2 6 ex Fall 6 Tamás Gyulavári Communication Sciences PENZoo8NAMB Financial Statements and Analysis CE Fall 6 Éva Gulyás Institute of Accounting and Law 2 2 6 ex Balázs György Institute of Strategy and VEZ0051NAMB Management and Organization CE Fall 6 2 2 ex 6 Vaszkun Management Institute of Strategy and CE Fall 6 Andrea Toarniczky VTSM125NAMB Organizational Behavior and Leadership 2 2 ex 6 Management Anita Reizingerné VTVK051NAMB Management Control Systems CE 2 Fall 6 Institute of Accounting and Law 2 6 pg Ducsai Institute of Strategy and 6 VEZ0085NAMB Strategic Management CE 2 2 6 ex Fall Péter Füzes Management Svetoslav Valeriev Advanced Corporate Finance Institute of Finance 293NFINK564M CE 6 2 2 6 ex Spring Covachev 293NFINK502M Applied Corporate Finance CE Spring 6 Kata Váradi Institute of Finance 0 ex 4 6 Methodology module, complete at least 6 credits 6 0 0 6 0 Institute of Data Analytics and **Computer Science** CE 2 2 6 Attila Tasnádi ADIN051NAMB Fall 6 ex Information Systems Institute of Operations and Fall, Quantitative Methods (6) Kristóf Ábele-Nagy OPDO035NAMB CE 2 2 6 6 ex Decision Sciences Spring

nester for beginning students												
ent	Equivalent subject											
Name	Code	Name	PSO									
	ADIN042NAMB	Software Engineering Information	no									
	ADIN043NAMB	Systems Driving Digital Transformation	yes									
	ADIN044NAMB	Information Technology and Law	yes									
	ADIN045NAMB	Business Intelligence	no									
		0										
	ADIN046NAMB	Process Management and ERP	no									
	ADIN047NAMB	E-Business	yes									
			yes									
	293NBISK603M	Network Technologies	no									
	ADIN050NAMB	IT Security	yes									
	KOZGoo8NAMB	Managerial Economics	yes									
	MARKoo6NAMB	Marketing Management	yes									
	293NACCK640M	Financial Statements and Analysis	yes									
	293NMANK620M	Management and Organization	yes									
	VEZ0038NAMB	Organizational Behavior and Leadership	no									
			no									
	VTVT024NAMB	Strategic Management	no									
	PENZ009NAMB	Advanced Corporate Finance	yes									
	PSBV098NAMB	Applied Corporate Finance	no									
	293NBISK600M	Computer Science	yes									
	293NMATK600M	Quantitative Methods	yes									



Number of 2025/26 2026/27 Evaluation Fall or Requireme classes per Credits Academic year Academic year [ype Subject Code Subject Name week Spring Credit Subject leader Institute *ectu* ji. Semester Code Fall Fall Spring Spring Specialization **Business Analyst & Governance specialization** 0 0 18 12 30 Institute of Data Analytics and ADIN052NAMB Digital Strategy and EAM CE 2 2 6 pg Fall 6 Zoltán Szabó Information Systems Institute of Data Analytics and 6 Péter Fehér ADIN053NAMB IT Governance С Fall 2 2 6 pg Information Systems Gábor György Institute of Data Analytics and ADIN054NAMB IT Project Management Fall 6 CE 2 2 6 ex Klimkó Information Systems Institute of Data Analytics and ADIN055NAMB 6 Réka Franciska Vas AI and data strategy CE 2 Spring 2 6 ex Information Systems Institute of Data Analytics and ADIN056NAMB Digitalization and Financial technologies Krisztián Varga CE 2 6 2 6 pg Spring Information Systems **Data Analytics specialization** 0 0 18 12 30 Szabina Eszter Institute of Data Analytics and ADIN057NAMB Data analysis and modelling in Python CE 1 3 6 pg Fall 6 Fodor Information Systems Ildikó Borbásné Institute of Data Analytics and CE Fall 6 ADIN058NAMB Data engineering 2 2 6 ex Szabó Information Systems Institute of Data Analytics and ADIN059NAMB 6 Analytics and its enabling technologies CE Fall Andrea Kő 1 3 6 pg Information Systems Institute of Data Analytics and Réka Franciska Vas CE 6 ADIN055NAMB AI and data strategy 2 ex Spring 2 6 Information Systems Institute of Data Analytics and ADIN060NAMB Data Science project in Business CE 3 6 pg Spring 6 Tibor Kovács 1 Information Systems Digital innovation specialization 0 0 12 18 30 Institute of Data Analytics and ADIN052NAMB Digital Strategy and EAM CE Fall 6 Zoltán Szabó 2 2 6 pg Information Systems Gábor György Institute of Data Analytics and ADIN054NAMB IT Project Management 6 CE 2 Fall 2 ex 6 Klimkó Information Systems Institute of Data Analytics and Csaba Csáki ADIN061NAMB Artificial Intelligence in the Organization CE 2 2 6 ex Spring 6 Information Systems Institute of Entrepreneurship and Éva Pintér VALL006NAMB Innovation and technology management CE Spring 6 1 3 6 pg Innovation Institute of Data Analytics and Digitalization and Financial technologies 6 ADIN056NAMB CE 2 2 6 pg Spring Krisztián Varga Information Systems **Thesis Work - 30 credits** 0 0 15 15 30 Institute of Data Analytics and ADIN062NAMB Thesis Work I. Zoltán Szabó С 0 7 15 pg Fall 15 Information Systems Institute of Data Analytics and ADIN063NAMB Thesis Work II. С Spring Zoltán Szabó ADIN062NAMB Thes 0 7 15 pg 15 Information Systems Criterium 0 0 0 0 Institute of Data Analytics and С INIR003NAMB Internship Zoltán Szabó 0 s Spring 0 Information Systems **Elective courses** 0 0 Fall, Е Elective courses Spring Centre for Physical Educations TS00001NMMB Sports/Physical Education Е Fall Csaba Vladár 2 2 pg 2 0 and Sports

MNGINF24ABP - Business Informatics master programme in Budapest, in English, full time training Curriculum for 2025/26/1 fall sem

	Equivale	Equivalent subject									
Name	Code	Name	PSO								
			no								
	293NBISK611M	IT Governance	no								
	293NBISK607M	IT Project Management	ye								
			ye								
			no								
			no								
			no								
			no								
			no								
			no								
			no								
	293NBISK607M	IT project management	ye								
			ye								
			ye								
			no								
			ye								
Work I.			ye								
			no								



	MNGINF24ABP - Busi	ness Inf	orn	natio	es m	aste	er prog	gram	me in	Buda	apest,	in Eng	lish, full time	training Curriculum for 2	2025/26/1 fall	semester for be	ginning studen	ts	
Subject Code	Subject Name	ype	Number of classes per week			luation	Spring	Academic year		2026/27 Academic year		Credit Subject leader	Institute	Requirement		Equivalent subject		OS	
		E	Lectu	Semi	ū	Eva	Semester	Fall	Spring	Fall	Spring				Code	Name	Code	Name	
	Foreign language	E	0	4	0	pg	Fall, Spring							Centre of Foreign Language Education and Research					
IOK0001NABB	Hungarian Language SHI I.*	E/C	0	4	3	pg	Fall	3					Judit Magyar	Centre of Foreign Language Education and Research					
IOKooo4NABB	Hungarian Language SHI II.*	E/C	0	4	3	ex	Spring		3				Judit Magyar	Centre of Foreign Language Education and Research					
Total credits	(semester)							30	30	33	27	120							

Remarks

Type: C=compulsory courses, CE=core elective courses, E=elective (optional) courses

Methods of assessment: ex=exam (exam at the end of the semester, but other forms of assessment are possible during the semester), pg=grade based on the practical assignments given during the course of the semester, A subject that can be completed in a preferential study order (PSO) on the basis of Section 92 of the Study and Examination Regulation (SER)

Students wishing to take part in sport can take one semester without paying a fee and the following semesters the students can only take physical education with the payment of a specified fee.

Foreign language

During their studies, students can learn a language in the form of paid subjects within the framework of elective subjects.

Curriculum

It is recommended to include the subjects in the schedule according to the sample curriculum. The student may deviate from this, taking into account:

- 1. the pre-study order,
- 2. semester of announcing subjects

3. Completion of an average of 30 credits per semester

4. In addition to the compulsory subjects, students may take elective subjects from the offer of elective subjects (see Neptun) as well as foreign languages.

5. A minimum of 2/3 of the required amount of credit must be completed at Corvinus University.

* Hungarian Language is a compulsory subject for the students participating in the Stipendium Hungaricum scholarship program in the first two semesters.

The detailed rules related to the admission of the subjects and the completion of the subjects are included in the Study and Examination Regulations!

Please note that curriculum changes are possible!