

Business Informatics Bachelor's program

training program

For students who start in the fall semester of 2026/2027

Business Informatics Bachelor program

Valid: For students who start in the fall semester of 2026/2027

General Information:

Programme Director: Dr. Zoltán Szabó, Associate Professor

Place of the training: Budapest

Training schedule: full-time

Language of the training: Hungarian, English (this document focuses on the English program)

Specialisations: No specialisations

Training and outcome requirements:

1. Title of the Bachelor programme:

- in Hungarian: gazdaságinformatikus
- in English: Business Informatics

2. The level of qualification attainable in the bachelor's programme, and the title of the certification

- qualification level: bachelor (baccalaureus, abbreviation: BSc)
- qualification in Hungarian: gazdaságinformatikus
- qualification in English: Business Informatics Engineer

3. Training area: informatics

4. Training duration, in semesters: 7 semesters

5. The number of credits to be completed for the bachelor's degree: 210 credits

- degree orientation: balanced (40-60 percent)
- credit value of the thesis: 15 credits
- minimum credit value of elective courses: 10 credits

6. International Standard Classification of Education field of education code: 481/0613

7. Bachelor's degree training objectives and professional competences:

The aim of the program is to train business IT specialists who are able to understand real business processes and solve related problems within the conditions and value system of the information society; who are able to manage IT tasks that support value-creating processes; using the latest information technology to increase the knowledge base and business intelligence of organizations, to model information and communication processes and technologies based on cooperation, and to regulate and plan processes; identifying problems, defining problem areas, developing and operating applications, and monitoring operations to ensure they meet the required quality standards. They are prepared to continue their studies in the master programme.

7.1. Attained professional competences

7.1.1. Business Informatics

a) knowledge

- Their English language skills will be sufficient for the requirements of the programme, for reading English-language literature, understanding and processing professional texts, performing the professional tasks related to this qualification, and for continuous professional development.
- They know and understand the basic concepts and relationships of analysis, probability theory, linear algebra, operations research, statistics and computer sciences, and formal models of routine problems related to the fields of application.
- They possess knowledge and understanding of basic micro- and macroeconomic concepts and interrelationships, interpret data on indicators of national economic performance and the interrelationships between them.
- They know and understand a company's system of activities, the basic concepts of value chain, supply chain, the principles of process-oriented company operation as well as the concept and components of corporate strategy.
- They are familiar with the functional organisation of a company and the basic concepts and procedures related to value creation processes.
- They have a basic knowledge of information systems, understand the principles of architectural organisation and are able to interpret the components of computer and information architecture in context.
- They know the theoretical components of computing infrastructure, the theoretical structure of hardware components, communication and system software, data management including the basic concepts of databases, data processing, representation and visualisation.
- They know the basic characteristics of the different layers of the information architecture (transaction processing, support of operational functioning, decision support, teamwork, workflow) and the interrelationships between them.
- They know basic programming structures, software development methodologies and the main programming environments.
- They have general knowledge of the regulatory issues and problems of the information society.
- They have a basic knowledge of all areas of information management, including the conceptual framework and interrelationships of IT strategy, process management, systems development, knowledge management, IT service management, project management, risk management, performance management, IT asset management, IT security and IT audit.

b) skills

- With the help of the acquired IT procedures and methods, they are able to identify the operating conditions of applications under real business and organisational conditions, to consider and communicate benefits, threats and risks.
- They are able to understand and analyse business processes, prepare and perform requirements specification of software applications to support implementation, perform simple programming tasks.
- They are able to work with business and IT professionals, using the most effective IT solutions, to prepare alternative solutions to economic problems, and to initiate and implement IT support and development.
- They are able to perform database management tasks and simple data migration tasks.
- They are able to adapt business applications, initiate organisational changes required for the implementation of IT applications and to collaborate in their implementation.
- They are able to apply systems development principles and methods as well as use development tools (business modelling and computer-aided development tools).
- They have the ability to identify and research problems specific to business informatics, and to find the resources needed to solve and manage them.
- They manage the IT department of the organisation and operate service processes.
- They detect and identify operational and management risks.
- They plan and manage small development projects.
- They cooperate in the performance of tasks related to IT audits.
- They are able to run business applications and provide user services.
- They are able to resolve IT conflict situations arising in the business environment

c) attitudes

- They are committed to and credibly advocate the professional principles of their IT and application domains (company, public administration or public service organisation).
- They are open to learning about and embracing professional, technological development and innovation in IT and its applications.
- They consider it important to communicate the results of IT to professionals and other representatives of the application areas.
- They accept and adapt to the work and organisational culture of their environment and adhere to the ethical principles of the profession.
- They reflect critically on their own professional competences and activities.
- They strive for continuous professional training and general self-learning.
- They strive to make their self-learning a means to achieve their professional goals.
- They consider it important to communicate and implement environmentally conscious behaviour.
- They speak out against the introduction or preparation for the development of technologies, procedures, methods and developments that are inconsistent with generally accepted human rights, discriminatory and contrary to social and environmental standards.

d) autonomy and responsibilities

- They are responsible for their own and group professional activities.
- As a manager, they are responsible for the professional work of the people under his/her control.
- When carrying out tasks, they have an independent opinion on the economic, social and security impacts and implications of IT systems, in accordance with professional criteria.
- They perform their tasks in a professional manner, taking into account their independent opinion on the environmental and sustainability impacts and implications of IT system operations.

8. Bachelor's degree characteristics**8.1. Professional properties****8.1.1. The disciplines and fields of expertise on which the qualification is based:**

- natural sciences (analysis, probability, linear algebra, statistics, operations research, computer sciences) 20-40 credits;
- economic and social sciences (economics, business economics, management and organisation, law, accounting, controlling) 30-40 credits;
- business informatics (enterprise architecture, software technology, databases, programming, systems development, IT security, information management, infrastructure management, business intelligence, quality, audit) 65-110 credits.

8.1.2. Taking into account the optional specialisations, specific knowledge can be acquired in fields of expertise that meet the needs of the IT profession. The credit value of the specialisation offered by the educational institution must be at least 40 credits.

8.2. Internship requirements

The internship is a project-based internship of at least 320 certified working hours (eight weeks) in a suitable organisation or in a higher education institution's practice site, either individually or in a group, after four (4) active semesters or 110 credits.

9. Degree thesis/ Dissertation

The aim of the thesis is to demonstrate the student's knowledge and professional expertise in a topic of his/her own choice, in collecting scientific data related to the chosen topic, in systematising, analysing and processing them, in discussing the chosen phenomenon or problem, in developing hypotheses, in solving problems, in analysing alternative hypotheses, in reasoning and refuting counter-arguments, and in expressing his/her thoughts, views, positions and statements in a coherent, consistent manner that is sophisticated in terms of language use.

10. Type of Degree thesis

- project thesis
- research thesis
- artistic thesis

11. 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
- the required credits.

12. Conditions for admission to the final examination

Joint conditions for admission to the final exam:

- a) the student has obtained the final certificate,
- b) the student has submitted the thesis by the deadline,
- c) the thesis has been assessed and awarded a mark other than insufficient by the deadline,
- d) the student has applied for the final exam by the deadline,
- e) the student owes no overdue debt owed to the University in the given programme,
- f) the student has accounted for the assets of the University (e.g. books, sports equipment, etc. borrowed).

A student who has not fulfilled any of the conditions in paragraphs a) - f) may not be admitted to the final exam.

13. The part of the final exam

The final exam consists of a defence of the thesis and a portfolio-based oral examination.

14. Final examination results

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

- a) The grade for the thesis awarded by the referee(s) on a five-grade scale, in the case of more than one referee, the average of the grades given by the referees rounded to two decimal places and
- b) the grade received for defending the thesis and for answering the questions related to the thesis, awarded on a five-grade scale, as well as
- c) the grade for the portfolio-based oral examination, awarded on a five-grade scale

15. Components of diploma qualification, method of calculation

The result of the diploma shall be constituted of the arithmetic average of the following items, rounded to two decimal places:

- a) the credit-weighted (arithmetic) average of grades received in compulsory and compulsory elective subjects in the amount stipulated in the curriculum (if the student took more compulsory elective subjects than required, then of all completed subjects) and
- b) the result (grade) of the final examination.

16. Conditions for issuing a diploma:

The issuing of a diploma attesting to the completion of higher education studies is subject to the successful completion of the final exam.

BNGINF26ABP - Business Informatics bachelor programme in Budapest, in English, full time training Curriculum for 2026/2027. (1.) fall semester for beginning students																						
Subject code	Subject name	Type	Number of hours per week		credit	evaluation	fall or spring semester	2026/27 Academic year		2027/28 Academic year		2028/29 Academic year		2029/30 Academic year	credit	course leader	Institute	Pre-requisites		Equivalents		PSS
			1	2				3	4	5	6	7	Code	Name				Code	Name			
			Fall semester	Spring semester				Fall semester	Spring semester	Fall semester	Spring semester	Fall semester										
Compulsory subjects								28	28	31	30	27	9	21	174							
core subjects								28	28	31	12	3	0	0	102							
KSPVo28NABB	Learning Methods and Personal Skills	CR	0	3	0	s	Fall	0								Andrea Juhászné Klér	Centre for Educational Quality Enhancement and Methodology			7PE20NAK09B	Tanulás és kutatósmódszertan	yes
MSMT004NABB	Mathematical Analysis	C	2	2	4	ex	Fall	4								Gyula Magyarkuti	Institute of Data Analytics and Information Systems			4MA12NAK65B	Analízis	no
KG00064NABB	Microeconomics for Business	C	2	2	6	ex	Fall	6								Naoki Fujiwara	Institute of Economics			4MI25NAK02B	Mikroökonómia	no
293NBUSK276B	Business Economics	C	2	2	6	ex	Fall	6								Attila Kajos	Institute of Entrepreneurship and Innovation			2VL60NBK01B	Vállalatgazdaságtan	yes
ADIN168NABB	Fundamentals of IS and IT architecture	C	2	4	6	pg	Fall	6								New	Institute of Data Analytics and Information Systems			INSA005NMBB	Informatika és IT architektúra alapjai	no
ADIN002NABB	Introduction to Data Science and Programming	C	1	3	6	pg	Fall	6								Géza Molnár	Institute of Data Analytics and Information Systems			INSA006NMBB	Bevezetés a programozásba	no
MSMT005NABB	Probability Theory	C	2	2	4	ex	Spring		4							Gyula Magyarkuti	Institute of Data Analytics and Information Systems	MSMT004NABB	Mathematical Analysis	4MA12NAK61B	Valószínűségszámítás	no
ADIN003NABB	Advanced Programming	C	1	3	6	pg	Spring		6							Johannes Wachs	Institute of Data Analytics and Information Systems	ADIN002NABB	Introduction to Data Science and Programming	INSA008NMBB	Software technológia	no
INIR079NABB	Digital Technologies in Business	C	0	4	6	pg	Spring		6							Mutaz Abdelrazzaq Saleh AlShafeey	Institute of Data Analytics and Information Systems			INIR039NMBB	Digitális megoldások a vállalati életben	no
ADIN169NABB	IT Architecture	C	2	2	6	ex	Spring		6							Molnár Géza Gábor	Institute of Data Analytics and Information Systems	ADIN168NABB	Fundamentals of IS and IT architecture	INSA009NMBB	IT architektúra	no
SZAM010NABB	Foundations of Accounting	C	2	2	6	ex	Spring		6							László Péter Lakatos	Institute of Accounting and Law			2SA53NAK01B	Számvitel alapjai	yes
VTVZ001NABB	Management and Organisations	C	2	2	6	pg	Fall			6						Balázs György Vaszkun	Institute of Strategy and Management			2VE81NGK14B	Vezetés és szervezés	yes
ADIN004NABB	Database Systems	C	0	4	6	pg	Fall			6						Melinda Magyar	Institute of Data Analytics and Information Systems			INSA007NMBB	Adatbázisok	no
PSGJo13NABB	Business Law	C	2	0	3	ex	Fall			3						Péter Metzinger	Institute of Accounting and Law					yes
MSST044NABB	Data Analysis I.	C	1	4	6	pg	Fall			6						Tibor Takács	Institute of Data Analytics and Information Systems	MSMT005NABB	Probability Theory	4ST14NAK04B MSST026NMBB	Statisztika I. Statisztika I.	no
MSMT006NABB	Linear Algebra	C	2	2	4	ex	Fall			4						Gyula Magyarkuti	Institute of Data Analytics and Information Systems	MSMT004NABB	Mathematical Analysis			no
ADIN011NABB	Software engineering	C	1	3	6	pg	Fall			6						Mohácsi László	Institute of Data Analytics and Information Systems	ADIN003NABB	Advanced Programming	INSA010NMBB	Software engineering	no
293NFINK351B	Corporate Finance	C	2	2	6	ex	Spring				6					Nóra Ágota Felföldi-Szűcs	Institute of Finance			2BE52NAK01B, illetve 2BE52NAK04B	Vállalati pénzügyek, Vállalati pénzügyek IMP-SPM	yes
ADIN038NABB	Data Analysis II. (Probability and Statistics)	C	1	4	6	pg	Spring				6					Tibor Takács	Institute of Data Analytics and Information Systems	MSST044NABB	Data Analysis I.	4ST14NAK05B MSST027NMBB	Statisztika II. Statisztika II.	no
OPDO007NABB	Operational Research	C	0	2	3	pg	Fall					3				Kolos Csaba Ágoston	Institute of Operations and Decision Sciences	MSMT006NABB	Linear Algebra	4OP13NAK01B	Operációkutatás	yes
Courses can be completed in German instead of English																						
VGUG024NMBB	Allgemeine Betriebswirtschaftslehre	C	2	2	6	ex	Fall	6								Loretta Huszák	Institute of Entrepreneurship and Innovation			VGUG023NMBB, 2VL60NBK01B, illetve 2VL60NBK09B	Vállalatgazdaságtan, Allgemeine Betriebswirtschaftslehre	
2DS91NAK03B	Investition und Finanzierung	C	2	2	6	ex	Fall			6						Richard Andreas Werner	Institute of Finance			2BE52NAK01B PSBV027NMBB,	Vállalati pénzügyek, Investierung und Finanzierung	
Professional core subjects								0	0	0	18	24	9	21	72							
ADIN170NABB	System Development and IT Project Management	C	2	4	9	pg	Spring				9					Gábor György Klimkó	Institute of Data Analytics and Information Systems	ADIN011NABB	Software engineering	INIR040NMBB	Rendszerfejlesztés és IT projektmenedzsment (projekttárgy)	no
ADIN171NABB	IT and Law	C	2	1	3	ex	Spring				3					Nimród Mike	Institute of Data Analytics and Information Systems	PSGJo13NABB	Business Law			
ADIN172NABB	Digital Culture	C	2	2	6	ex	Spring				6					Róbert Pintér	Institute of Data Analytics and Information Systems			INIK007NMBB	Jog és informatika	yes
ADIN173NABB	Business Process Management	C	2	2	6	pg	Fall					6				Dóra Őri	Institute of Data Analytics and Information Systems			INIR041NMBB	Folyamat-menedzsment	no
ADIN174NABB	ERP systems	C	2	2	6	pg	Fall					6				Katalin Ternai	Institute of Data Analytics and Information Systems			INIR043NMBB	Integrált rendszerek	no
INIR082NABB	Intellyest Systems	C	0	4	6	pg	Fall					6				Betsabé Perez Garrido	Institute of Data Analytics and Information Systems	ADIN038NABB	Data Analysis II. (Probability and Statistics)	INIR044NMBB	Üzleti intelligencia	no
ADIN018NABB	Machine Learning in Practice I.	C	2	2	6	ex	Fall					6				Szabina Eszter Fodor	Institute of Data Analytics and Information Systems			INSA011NMBB	A mesterséges intelligencia alapjai	no
ADIN175NABB	IT Security	C	2	1	3	ex	Spring						3			Rita Ósz	Institute of Data Analytics and Information Systems	ADIN169NABB	IT Architecture	VGAV026NMBB	IT biztonság	no

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			1	2				3	4	5	6	7	Code	Name				Code	Name			
			Fall semester	Spring semester				Fall semester	Spring semester	Fall semester	Spring semester	Fall semester										
ADIN176NABB	Digitalization Projects	C	2	2	6	pg	Spring						6			Krisztián Varga	Institute of Data Analytics and Information Systems	ADIN170NABB	System Development and IT Project Management	INIRo45NMBB	Digitalizációs projektek (projekttárgy)	no
ADIN177NABB	IT Service Management and IT Audit	C	2	2	6	ex	Fall							6		Zoltán Szabó	Institute of Data Analytics and Information Systems			INIRo42NMBB	IT szolgáltatás- menedzsment és audit	yes
ADIN178NABB	Thesis work consultation/Project	C	0	4	15	pg	Fall							15		Zoltán Szabó	Institute of Data Analytics and Information Systems			INIRo46NMBB	Szakdolgozat/Projekt	yes
Core elective subjects								0	0	0	0	6	12	6	24							
Business & Economics:12 ECTS								0	0	0	0	6	6	0	12							
293NMARK370B	Marketing	CE	2	2	6	ex	Fall					6				József Hubert	Institute of Marketing and Communication Sciences			2MA41NAKo1B	Marketing	yes
VGDE035NABB	Corporate Social Responsibility	CE	2	2	6	pg	Fall					6				Katalin Ásványi	Institute of Sustainable Development					yes
GKOIo26NABB	Institutional Economics	CE	0	2	3	pg	Fall, Spring					3	3			József Golovics	Institute of Economics					yes
VGDE034NABB	Decision Techniques	CE	1	3	6	pg	Spring						6			Julianna Kiss	Institute of Operations and Decision Sciences	293NBUSK276B VAGY VGUGo24NMBB	Business Economics VAGY Allgemeine Betriebswirtschaftslehre	2VL6oNBKo3B	Döntési technikák	no
293NOPRK313B	Operations Management	CE	2	2	6	ex	Spring						3			Sofia De Leon Almaraz	Institute of Operations and Decision Sciences	293NBUSK276B VAGY VGUGo24NMBB	Business Economics VAGY Allgemeine Betriebswirtschaftslehre			yes
OMo00o4NMBB	Erasmus semester abroad subject 1	CE			6		Spring						6				Education Management					
VFo0136NABB	Business Enterprise: Start-Ups	CE	2	2	6	pg	Spring						6			Timothy Benjamin Gittins	Institute of Entrepreneurship and Innovation					yes
VFo0132NABB	Project Management	CE	2	2	6	ex	Spring						6			Bálint Blaskovics	Institute of Strategy and Management			2SP72NAKo1B	Egyedi projektek vezetése	no
Courses can be completed in German																						
PENZo33NNBB	Betriebswirtschaftliche Entscheidungstheorie	CE	2	2	6	ex	Spring						6			Kolos Csaba Ágoston	Institute of Operations and Decision Sciences			VGDEo11NMBB, 2VL6oNBKo3B, 2DS91NDKo1B	Döntési technikák, Betriebswirtschaftliche Entscheidungstheorie	
MAMEo14NMBB	Grundlagen des Marketing	CE	2	2	6	pg	Spring					6				Tamás Gyulavári	Institute of Marketing and Communication Sciences			MAMEo13NMBB, 2MA41NAKo1B, 2MF44NBKo1B	Marketing, Grundlagen des Marketing	
SZAMo6oNNBB	Kostenrechnung	CE	2	2	6	ex	Spring						6			János Lukács	Institute of Accounting and Law			VTVKo3oNMBB	Menedzsment kontroll	
Compulsory courses in Business Informatics: 15 credits compulsory								0	0	0	0	0	6	6	12							
OMo00o8NMBB	Erasmus semester abroad subject 2	CE			6		Spring						6				Education Management					
OMo0o36NABB	Erasmus semester abroad subject 3	CE			6		Spring						6				Education Management					
OPDOo04NABB	Network Analysis	CE	2	2	6	ex	Fall					6		6		László Lőrincz	Institute of Data Analytics and Information Systems	ADINo38NABB	Data Analysis II. (Probability and Statistics)			no
PENZo03NABB	Financial Market Data Analysis – Project Course	CE	2	2	6	pg	Spring						6			Samet Günay	Institute of Finance					no
ADIN179NABB	ERP systems and Application Integration	CE	0	4	6	pg	Spring						6			Ildikó Borbásné Szabó	Institute of Data Analytics and Information Systems	ADIN179NABB	ERP systems	INIRo48NMBB	Alkalmazásintegráció	no
FENTO17NABB	Methods for Economic Geographical Analyses	CE	0	2	3	pg	Spring						3			Ágnes Jeneyné Varga	Institute of Data Analytics and Information Systems					no
ADIN18oNABB	Cases on Business-IT Management	CE	0	4	6	pg	Fall					6		6		Péter Fehér	Institute of Data Analytics and Information Systems					no

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			1	2				3	4	5	6	7	Code	Name				Code	Name			
			Fall semester	Spring semester				Fall semester	Spring semester	Fall semester	Spring semester	Fall semester										
Elective subjects								3	3	0	0	0	6	0	12							
	Foreign language	E			3	pg	Fall, Spring	3	3							József Erdei	Centre for Research and Education in Foreign Languages				no	
the full list of elective courses for bachelor students are available in Neptun		E					Fall, Spring	3	3				6									
Criterion subjects								0	0	0	0	0	0	0	0							
TES_TESTNEV	Physical Education	CR	0	2	0	s	Fall, Spring	0	0							Csaba Vladár	Centre for Physical Educations and Sports					
IOK0332NABB	Competency test in a foreign language for specific purposes I.	CR			0	s	Fall, Spring					0	0			József Erdei	Centre for Research and Education in Foreign Languages					
ADIN181NABB	Internship	CR			0	s	Fall, Spring					0	0	0	0	Zoltán Szabó	Institute of Data Analytics and Information Systems				no	
Credits overall								31	31	31	30	33	27	27	210							

Remarks
Type: C – core courses, CE – core elective courses; E – elective courses; CR- Criterion 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 coursework; s – signature

A subject that can be completed in a preferential study schedule (PSS) on the basis of Section 92 of the Study and Examination Regulation (SER)

Physical education
Physical education is a criterion subject. The condition for obtaining a diploma is the completion of two semesters of physical education.The two semesters of physical education can be completed in 4 semesters from the start of studies. Students who have completed the mandatory two semesters can only take further semesters of the subject for a fee.

Foreign language
During their studies, students can study an additional foreign language free of charge for two semesters, within the framework of the elective subjects. Students who have completed these two semesters of language subjects may take additional language courses only upon payment of a specified fee.

Curriculum
Students are recommended to follow the sample curriculum when deciding when to enrol in each subject Students may deviate from this, taking into account:

- the prerequisites of the subject
- semester of announcing subjects
- completion of an average of 30 credits per semester
- In addition to the core, students should take elective subjects from a wide variety available on Neptun, and may take foreign languages as well.
- A minimum of 2/3 of the required amount of credits 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.

Detailed rules regarding the enrolment into and completion of subjects are included in the Study and Examination Regulations.

Please note that the curriculum may be subject to changes.

The following subjects can also be taken in German:
Business Economics - Allgemeine Betriebswirtschaftslehre
Corporate Finance - Investition und Finanzierung
Principles of Marketing - Grundlagen des Marketing
Decision techniques - Betriebswirtschaftliche Entscheidungstheorie