

BUSINESS INFORMATICS	
The level of education	first-cycle studies
The language of education	English
The profile of education	general academic
Form of studies	full-time studies
Number of semesters	6
Number of ECTS credits needed to complete studies	180 ECTS
Number of hours	full-time studies – 1898 h
Professional title obtained by a graduate	licencjat (Bachelor degree)
Assignment to the appropriate field of science	social Sciences
Scientific disciplines to which the learning outcomes apply	management and quality sciences (leading discipline) – 53% information technology – 38% economics and finance – 9%
The total number of ECTS credits that the student must obtain during classes conducted with the direct participation of academic teachers or other persons conducting classes	90 ECTS
Classes or groups of classes, regardless of the way of providing them, to which learning outcomes are assigned together with program content ensuring the achievement of such outcomes	the list is available in the electronic system available at https://ue.e-sylabus.pl
Methods of verifying and evaluating the learning outcomes achieved by the student during the education cycle	exam, control papers, projects, activity, student's own work
The duration, rules and form of apprenticeships and the number of ECTS credits that the student must obtain as a result of this apprenticeship	the study program does not provide for apprenticeships by students
The number of ECTS credits that the student must obtain for the course in the area of humanities	6

The program of study allows the student to choose classes to which ECTS credits are assigned in the amount of not less than 30% of ECTS credits, i.e. 54 ECTS.

The study program includes classes related to the scientific activity conducted at the university in the discipline or disciplines to which the field of study is assigned, in the amount exceeding 50% of the number of ECTS points, i.e. 90 ECTS, and takes into account the participation of students in classes preparing for conducting scientific activity or participation in this activity.

Business Informatics program learning outcomes

Learning outcome code (program)	Learning outcomes After completing the first-cycle studies with a general academic profile in Business Informatics program the graduate:	Reference to the Polish Qualifications Framework
WIEDZA/KNOWLEDGE		
K_W01	knows and understands at an advanced level contemporary trends and directions of development of sciences on management and quality as well as economics and finance as well as the role and importance of these sciences in the area of social sciences.	P6S_WK; P6S_WG
K_W02	knows and understands at an advanced level mathematical, statistical, and econometric methods and tools necessary to analyse economic phenomena, as well as to make rational decisions in all types of entities and economic organizations.	P6S_WG
K_W03	knows and understands at an advanced level the functionality and IT solutions to collect, analyse and present economic, financial, and social data.	P6S_WG
K_W04	knows and understands at an advanced level methods, techniques, tools, and IT solutions including data collection and processing as well as information systems architecture and their security.	P6S_WG
K_W05	knows and understands at an advanced level methods, techniques, principles of software engineering and creation of information systems (i.e., analysis, modelling, designing, programming, testing, validation, implementation) for the needs of various entities and organizations; can see the effects of these activities in the functioning of the organization.	P6S_WK; P6S_WG
K_W06	knows and understands at an advanced level the methods, techniques, and principles regarding IT project management for the needs of various types of entities and organizations; can assess the impact of project implementation on stakeholders.	P6S_WK; P6S_WG
K_W07	knows and understands at an advanced level the scope of mechanisms of human behaviour and the influence of man and social groups on the organization.	P6S_WG
K_W08	knows and understands at an advanced level information and communication technologies and their development trends.	P6S_WK; P6S_WG
K_W09	knows and understands at an advanced level the essence and significance of the law, norms, and standards (including ethical ones) applicable to the operations of enterprises; knows the rules and conditions related to the development of various forms of entrepreneurship.	P6S_WK; P6S_WG
UMIEJĘTNOŚCI/SKILLS		
K_U01	can apply theoretical and practical knowledge in individual areas of the organization in the field of identifying, diagnosing, and solving decision problems.	P6S_UW
K_U02	can apply theoretical and practical knowledge concerning the implementation of IT systems and advanced ICT solutions in the field of analysis, modeling, design, programming, implementation, and management of the implementation of an IT project.	P6S_UW

K_U03	examines and identifies phenomena and processes related to the implementation of widely understood ICT solutions in the organization and its environment, can describe, analyze, and interpret them using appropriate concepts and theories, obtaining information from various sources, also in a foreign language.	P6S_UW
K_U04	examines and identifies phenomena and processes related to the implementation of widely understood ICT solutions in the organization and its environment, can describe, analyze, and interpret them using appropriate concepts and theories, obtaining information from various sources, also in a foreign language.	P6S_UW
K_U05	can communicate with the environment using terminology in the field of management and quality sciences as well as IT, as well as to take part in the debate and present his own position in the discussion with the use of a foreign language at B2 level of the European System of Language Description.	P6S_UK
K_U06	can plan and organize own and teamwork and cooperate in the implementation of entrusted tasks, considering ethical and socio-cultural aspects.	P6S_UO
K_U07	can independently and continuously acquire knowledge and improve skills using modern self-learning tools.	P6S_UU
KOMPETENCJE SPOŁECZNE/SOCIAL COMPETENCES		
K_K01	is ready to critically evaluate and supplement his knowledge in the field of management and quality sciences as well as computer science.	P6S_KK
K_K02	is ready to act in an entrepreneurial way, also in the interest of the public, respecting the principles of corporate social responsibility.	P6S_KO
K_K03	is ready to act in accordance with applicable law and ethical standards within the framework of designated professional, organizational and social roles.	P6S_KR

	2023/2024 - 2025/2026	Total Exam	Full-time studies					Part-time studies					E C T S
	BUSINESS INFORMATICS FIRST CYCLE		Total hours	L	T	CL	S	Total hours	L	T	CL	S	
Approval date:	winter 2023/2024 - Semester 1	4	304	154	105	45	0	0	0	0	0	0	30
	summer 2023/2024 - Semester 2	4	330	135	120	75	0	0	0	0	0	0	30
	winter 2024/2025 - Semester 3	3	330	135	75	120	0	0	0	0	0	0	30
	summer 2024/2025 - Semester 4	3	364	150	135	79	0	0	0	0	0	0	30
	winter 2025/2026 - Semester 5	0	330	120	60	120	30	0	0	0	0	0	30
	summer 2025/2026 - Semester 6	0	240	120	30	60	30	0	0	0	0	0	30

Course code	Course	Sem.	Credit form	Full-time studies					Part-time studies					E C T S
				Total hours	L	T	CL	S	Total hours	L	T	CL	S	
SECTION I. GENERAL COURSES - OBLIGATORY														
	Introduction to Microeconomics	II	Exam	30	15	15								3
	Introduction to Macroeconomics	II	Grade	30	15	15								3
	Finance	II	Exam	30	15	15								3
	Accounting	I	Exam	30	15	15								3
	Management	I	Exam	60	30	30								6
	Mathematics	I	Exam	60	30	30								6
	Law	I	Grade	30	30									3
	Information Technologies	I	Grade	30			30							3
	Introduction to Research Methods	IV	Grade	15	15									2
TOTAL SECTION I				315	165	120	30	0	0	0	0	0	0	32
SECTION II. OBLIGATORY COURSES														
	Introduction to Computer Science	I	Grade	30	15		15							3
	Fundamentals of Information Systems	II	Exam	90	45	15	30							9
	Statistics	III	Exam	60	30	15	15							6
	System Analysis and Design	III	Exam	90	45		45							8
	Databases	III	Exam	60	30		30							6
	IT Project Management	IV	Exam	75	30	30	15							6
TOTAL SECTION II				405	195	60	150	0	0	0	0	0	0	38

Course code	Course	Sem.	Credit form	Full-time studies					Part-time studies					E C T S	
				Total hours	L	T	CL	S	Total hours	L	T	CL	S		
SECTION III. OPTIONAL COURSES															
	Digitalization of Business Models	I	Exam	60	30	30									6
	Programming in MS.NET Technology	II	Exam	90	45		45								8
	Object Oriented Programming in Python	III	Grade	60	30		30								6
	ICT Based Knowledge Management	IV	Exam	45	30	15									5
	Fundamentals of Artificial Intelligence	IV	Exam	30	15		15								4
	Business Process Modeling	IV	Grade	60	30		30								6
	Business Intelligence	V	Grade	30	15		15								3
	Information Systems Security	V	Grade	30	15		15								2
	Econometrics	V	Grade	30	15		15								2
	Project Practice	VI	Grade	30	15		15								2
	Matlab Application	VI	Grade	30	15		15								2
	Computer Architecture and Operating Systems	IV	Grade	45	30		15								3
TOTAL SECTION III				540	285	45	210	0	0	0	0	0	0	0	49
SECTION IV. SPECIALIZATION COURSES															
	Specialization Course	V	Grade	30	15		15								3
	Specialization Course	V	Grade	60	30		30								6
	Specialization Course	V	Grade	60	30		30								6
	Specialization Course	VI	Grade	60	30		30								6
TOTAL SECTION IV				210	105	0	105	0	0	0	0	0	0	0	21
SECTION V. HUMANISTIC AND SOCIAL COURSES															
	Humanistic Course I	VI	Grade	30	15	15									3
	Humanistic Course II	VI	Grade	30	15	15									3
	Social Course I	VI	Grade	15	15										1
	Social Course II	VI	Grade	15	15										1
TOTAL SECTION V				90	60	30	0	0	0	0	0	0	0	0	8

Course code	Course	Sem.	Credit form	Full-time studies					Part-time studies					E C T S
				Total hours	L	T	CL	S	Total hours	L	T	CL	S	
SECTION VI. ACADEMIC COURSES - OBLIGATORY														
	Electronic Sources of Scientific Information	IV	Credited	4			4							0
	Occupational Health and Safety	I	Credited	4	4									0
	Physical Training	IV	Credited	30		30								0
	Physical Training	V	Credited	30		30								0
	Foreign Language I - English - FT1	II	Grade	30		30								2
	Foreign Language I - English - FT1	III	Grade	30		30								2
	Foreign Language I - English - FT1	IV	Grade	30		30								2
	Foreign Language II - FT1	II	Grade	30		30								2
	Foreign Language II - FT1	III	Grade	30		30								2
	Foreign Language II - FT1	IV	Grade	30		30								2
	Foreign Language II - FT1	V	Grade	30		30								2
	Bachelor Seminar	V	Credited	30				30						6
	Bachelor Seminar	VI	Credited	30				30						6
	Bachelor Thesis	VI	Credited											6
TOTAL SECTION VI				338	4	270	4	60	0	0	0	0	0	32
TOTAL HOURS				1898	814	525	499	60	0	0	0	0	0	180

LIST OF SPECIALIZATIONS

System Design and Programming

	Database Design	V	Grade	30	15		15							3
	Internet Application Development	V	Grade	60	30		30							6
	Programming of Mobile Applications	V	Grade	60	30		30							6
	User Interaction Design	VI	Grade	60	30		30							6