

a multimedia presentation

FACULTY: Economic and Social Sciences

COURSE: *Economics*

 ${\bf LEVEL\ OF\ EDUCATION:}\ first-level\ studies\ (bachelor)$

FORM OF EDUCATION: full-time PROFILE: <u>practical</u>

SUBJECT CARD

(Syllabus)

	Subject Name: Information Technology ECTS credits: 4									
Lecturer: according to the list of lecturers and the schedule of classes										
Year:	1	Lectures	Conversation classes	Laboratory exerc	cises BUNA*	Form of				
				Exercise		credit*				
Semes	ster:	9	0	24	12	\mathbf{E}/\mathbf{Z}				
_	1									
* E - exam; Z - credit; ZO - passing with a grade, BUNA - without the participation of an academic teacher										
			arization with the basic co							
			area networks and inform							
			edge, skills and social co							
		na application. oplication.	s in business, preparing s	iuaenis jor ine use oj m	waern injormation te	ecnnologies ana				
			n lecture(conventional) d	and situational, practic	e part based on the	use of various				
			hotographs, archival ma							
method	d, case stu	dy.			_					
Prerequisites: computer use in the field of text, calculation, graphic, sound editors; actively participate in										
conversations, perform recommended tasks to solve on your own.										
No	Subject matter of the classes									
	LECTU	RE:								
	1. Development of the software production sector: history, organization of the ICT sector, economic									
	consequences, mass software, Open Source software, legal protection of computer programs. 2. Information, data, information processing, data representation.									
	2. Inform	nation, data, inf	formation processing, dat	a representation.						
I			formation processing, data	=	NOSQL databases. D					
I	3. Introd 4. Electro	action to relation	onal databases. Trends in one of the control of the	database development: Normatting. XML, HTM	L.	ata warehouses.				
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		Learnin	g out	comes
Direct	ional effects –	symbol and specification		Objective effects – specification
in the field of	KNOWLEDG	E:		
P6U_W	P6S_WG	E1_W01 Has a comprehensive knowledge of the place of economics in the system of sciences, its character, methodology and related to other scientific disciplines, knows and understands		Knows the methods and IT tools appropriate for the scientific discipline of economics used to obtain data from primary and secondary sources, allowing to analyze and interpret phenomena, processes, entities, structures and activities of organizations.
	P6S_WG P6S_WK	the basic terminology of economic sciences along with the application of this practical knowledge in business activities. E1_W02 Knows and understands economic conditions, forms and		Knows and understands the basic concepts related to the
P6U_W	F03_WK	standards, as well as phenomena and processes related to the market. Has knowledge of economic structures and institutions, as well as their elements, characteristics and development.		use of computers, operating system, office suite including: word processor, spreadsheet, database. Has knowledge of the usefulness and essence of IT support for entrepreneurship.
P6U_W	P6S_WG	E1_W12 Has advanced knowledge of modern information and information systems and techniques and the possibilities of their use in accordance with the studied direction in practice. E1_W04 Knows and		Uses knowledge in the field of the scientific discipline of economics in the context of the functioning of the organization in the network and the visual identification of the company in the digital space. Has the necessary knowledge, thanks to which can adjust the selected information technology tool to perform tasks more effectively.
P6U_W	P6S_WG	understands at an advanced level the application of selected mathematical, statistical methods and IT tools for the collection, analysis and presentation of economic and social data and their practical application in professional activities.		Knows and understands advanced concepts related to the use of computers, operating system, office suite including: word processor, spreadsheet, database. Has knowledge of the functioning of the local and global computer network and services available on the Internet. Has knowledge of the safe use of the computer and the use of resources available on the network.
in terms of SI	KILLS:			
P6U_U	P6S_UW	E1_U02 Is a to use theoretica knowledge a effectively a effectivel; obtain relial data from primary ar secondary sources te analyze specific economic	and and ble	Is able to take an active part (as a collaborator or leader) in the analysis and evaluation of alternative solutions to IT and economic problems and choose methods and instruments (programs) that allow them to be practically implemented.
		processes a phenomena	nd	



prepare accounting and financial documentation for decision-making and accounting purposes and analyze and evaluate the economic and social processes and phenomena taking place. P6U_U P6S_UK P6S_UO Accounting purposes and implement oral presental appropriate to the subject and detailed issues regarding possibility of using information technologies in activities of market entities.	P6U_U	P6S_UW	economic disciplines. E1_U03 Is able to properly analyze and prepare accounting and financial documentation for decision-making and accounting purposes and analyze and evaluate the economic and	Has the ability to observe, understand and analyze phenomena in the real and virtual world, document and improve the economic process using appropriate IT tools (programs).
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and related activities of market entities.				possibility of using information technologies in the
sciences both				
in a team of				
employees and				
use the advice				
of specialists				
from various				
fields of				
knowledge. Is				
able to present his/her own				
ideas and				
views				
attractively and				
convincingly.				
E1_U06 Is	-			
P6U_U P6S_UWP6S_UOP6S_UU able to	PALLII	P6S HWP6S HOP6S HH		
independently	100_0	1 05_0 111 05_0 01 05_0 0		
				Has the ability to prepare in electronic form typical works
				Has the ability to prepare in electronic form typical works on detailed issues, using the principles of data collection,
				their description and interpretation, as well as inference
learning, being supported by basic software office suites.				
aware of the				supported by basic software office suites.
dynamic				
development of				
sciences, using				
the acquired				
economic				
knowledge and				
practical				
conclusions				
and specialist				
experience in				
independent				
implementation				
of tasks, as				



					as running													
					siness and													
			solving the dilemmas of															
		fessional																
in the field of SC	OCIAL CON	MPETENO	°FS•		work.													
	Jenie con	VII E I E I V	E1_K0	1 Is re	eady													
P6U_K	P6S_KKP	6S_KR	to critic	cally as	sess	ļ.,												
			the level of their knowledge;				Independently improves the acquired knowledge specific tools and using information technology											
			recog		dev	development opportunities as well as its potential thre												
				rtance				to develop Il career in a			and m	anage						
			solving	vledge i g cogni		pro	CSSIOII	ii career iii a	ii originar v	way.								
		and j	practica	al														
		problem	is and s pinion															
			experts	in cas	e of													
			difficult															
			the problem on their own.				ble to a	actively coo	perate in ta	ask forces	in direc	ct and						
			E1_K(tact (also				The						
P6U_K	P6S_KOP	6S_KR	actively					ble to coope t roles in it.	erate and w	ork in a group by taking								
				in teams, including international ones,				on onless in it.										
			and take on various roles with respect for social, cultural															
			and legal norms, and perform responsible roles in the team, being aware of the decisions he makes, and also takes responsibility for the results of his work and the whole															
						<u> </u>										team. E1 K06 Is able to		
							P6S_KO		thin		Presents arguments using modern technologic							
P6U_K	P6S_KR		entrepreneurial way and skillfully communicate with the environment;			content that is lawful and respects the dign recipients. In the variability of the environment												
						methods of interaction to a given society.					nts the							
			adapt situat															
			situations and conditions, acquires															
			resistand and	ce to fa stress.														
ays to verify th	ays to verify the outcome of this learning (KNOWLEDGE, SKILLS, SOCIAL COMPETENCES)																	
				ı						g		ect						
er oto (onel1)	Written exam	am	Colloquium	Essay/Paper	'ork		Individual presentation	Group presentation	y in	Participation in the discussion	ual	Group project						
ffects(symbol)	tten	Oral exam	loqu	ay/F	Homework		Individual	up ente	Activity in class	Participati in the discussion	Individual project	I dn						
	Wri	Ora	CoL	Ess	Hor		Indi	Group present	Activ	Partici in the discuss	Individ	Gro						
_W01,							1		_	1								
1_W02,	X				X				X			X						
1_W12, 1_W4	1				7				7.			∠\$						
l_W4 l_U02 04,							+		***	T 7		T 7						
I_U06	X				X				X	X		X						



E1_K01,						
E1_K02,				X		X
E1 K06						

Form and conditions of passing the subject: realization of project (independently / group), passing based on practical tasks discussed during classes, exam in written form - issues of a closed and open interpretative nature.

Contact hours with an academic teacher		
Types of classe	Number of hours	
Participation in lectures		9
Participation in seminars		
Participation in exercises	24	
Participation in laboratory classes		
Consultations (2 hours for the lecture, 1 hour for on	e training group, conv., sem.)	
Sum of	33	
Student's own work divided into time (examples		
Form of student w	Number of hours	
Preparing for classes	21	
Writing a paper/project/essay		
Gathering materials and preparing presentations	21	
Self-reading	30	
Preparing for colloquia/tests	15	
Preparing for the written/oral exam in a subject	15	
Preparation for written/oral credit in a subject		
Sum of	96	
Total (contact hours + student's own work)	120	
	4 ECTS	
1.including the number of ECTS credits for contact of an academic teacher	1 ECTS	
2.including the number of ECTS credits for hours c independent work	3 ECTS	
Classes wit	h a practical profile	
Types of classes	ours	
Participation in laboratory exercises	12	
Preparing for practical credit	108	
Sum of	120	
Number of ECTS credits for practical classes	4 ECTS	

Basic literature: (up to 3 items)

- 1. M. Pańkowska (ed.), Economics and Managment in Information Technology Context (ebook), Wydawnictwo Uniwersytetu Ekonomicznego w Katowicach, Katowice 2017.
- 2. D. S. A. Ramya, Fundamentals of Information Technology, MJP Publisher, [Chennai] 2023.
- 3. H. Overby, J. A. Audestad, Introduction to Digital Economics: Foundations, Business Models and Case Studies, Springer, [Berlin] 2023.

Supplementing literature:

- 1. S. Guldenberg, E. Ernst, Managing Work in the Digital Economy, Springer, [Berlin] 2022.
- 2. Y. G. Buchaev, A. S. Abdulkadyrov, J. V. Ragulina, A.A. Khachaturyan, E. G. Popkova (ed.), Challengers of the Modern Economy: Digital Technologies, Problems, and Focus Areas of the Sustainable Development of Country and Regions, Springer, [Berlin] 2023.

Acceptance	of	the	Vice-1	Rector
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