**3. Educational program.** Digital Economics (Bachelor's degree) - the educational program guarantor - Ivanova O.M., Candidate of Economic Sciences, Associate Professor, Associate Professor of Digital Economics and Systems Analysis.

	<b>(specialization in Digital Economics)</b>
	1 – General information
Full name of HEI and	State University of Trade and Economics, Faculty of Information
structural subdivision	Technology, Department of Digital Economics and Systems
	Analysis
Higher education	Bachelor's degree
degree and title of	specialty "Economics"
qualification in the	specialization "Digital Economics"
original language	
Official name of	"Digital Economics"
educational program	
Type of diploma and	Bachelor's degree, single, 240 ECTS credits, term of study 3 years
scope of educational	10 months
program	
Availability of	Primary accreditation is scheduled for 2026
accreditation	
Cycle / level	NRC of Ukraine - level 6, FQ-EHEA - first cycle,
	EQF-LLL - level 6
Prerequisites	Availability of complete general secondary education
Language (s) of	Ukrainian
teaching	
Term of educational	4 years
program	
Internet address of the	https://knute.edu.ua
permanent placement	I
of the educational	
program description	
	2 – Purpose of educational program
Training of bachelors in	digital economics, able on the basis of mastering basic economic
	ogies, principles of modeling and creation of information systems to
carry out professional ac	tivities aimed at building models of economic objects and processes,
	s to make effective business decisions.
	3 - Characteristics of educational program
Subject area (field of	Branch of knowledge 05 "Social and behavioral sciences"
knowledge, specialty,	Specialty 051 "Economics"
specialization (if	Specialization "Digital Economics".
available))	
Orientation of	Educational and professional. Emphasis on the study of real economic
educational program	processes in the digital space in compliance with the principles of
	building mathematical models and the use of information systems and
	their practical implementation.
Main focus of	Special education in economics with the use of economic and
educational program	mathematical modeling and digital technologies in economics.

#### 3.1 Profile of the educational program in the specialty 051 "Economics" (specialization in Digital Economics)

and specialization			omic systems, economic processes, digital systems,									
	U	-	gies, mathematical modeling, mathematical methods,									
			stems, information technologies, decision making,									
		-	agement, digital infrastructure, digital space.									
<b>Program features</b>	The cycl	e of pro	fessional and practical training includes disciplines, the									
	study of	which	will allow to master the theoretical knowledge and									
	practical	skills	of modeling and information support of economic									
	systems	manager	nent in the digital space.									
	4	– Suita	bility of graduates									
	to em	ploymer	nt and further training									
Suitability	for The field	d of pro	fessional activity of graduates is the study of objects									
employment	and pro	cesses o	of the digital economy by building and analyzing									
	economi	ic mode	ls and their information support.									
	The list	of econ	omic activities that a bachelor in digital economics									
	is able to		-									
		-										
	Cod	le of	Name of the type of economic activity									
	CTE	A SC										
	009:	2010										
	62	.02	Consulting on informatization									
	63	.11	Data processing, posting of information on web									
			sites and related activities									
	63	63.12 Web portals										
	Bachelo	r of Dig	ital Economics positions:									
		of SC	Profession name									
	003:	2010										
		26.2	Head of structural unit (information protection)									
		81.1	Researcher-consultant (computer systems)									
		31.2	Computer Communications Analyst									
		31.2	Computer systems analyst									
		9.2	Computer application engineer									
		9.2 9.2	Information Technology Management Expert									
		9.2	Specialist in economic modeling of ecological									
			systems									
	243	3.1	Researcher-consultant (information analytics)									
		1.2	Economist of the computer (information and									
	244	F 1 • Z	computing) center									
	31	21	Information technology specialist									
		<i>L</i> 1	mormation technology specialist									
	With th		sition of relevant experience he can adapt to the									
		-	of related professional activities: marketing, foreign									
		-	ational, research.									
Further training												
r ut mer training		•	study for a master's degree in the educational-									
			gram "Digital Economics" or educational-professional ted fields, as well as to improve their skills and receive									
			-									
			aduate education.									
Taaahira ardlaa			ing and assessment									
Teaching and learn	U	-orientec	l learning, self-learning, learning through practical									
Evoluction	training.		written avone partification Evaluation is somial and in									
Evaluation	Current	Jointrol, V	written exams, certification. Evaluation is carried out in									

	accordance with the "Regulations on the assessment of learning
	outcomes of students and graduate students of SUTE", "Regulations on
	the organization of the educational process of students"
	6 – Program competencies
Integral competence	The ability of a <i>person to solve</i> complex specialized problems and
	practical problems in the economic sphere or in the learning
	process, which involves the use of certain theories and methods of
	economic science and information technology and is characterized
	by complexity and uncertainty.
General competencies	GC1. Ability to exercise one's rights and responsibilities as a
(GC)	member of society, to realize the values of civil (democratic)
	society and the need for its sustainable development, the rule of
	law, human and civil rights and freedoms in Ukraine.
	GC2. Ability to preserve moral, cultural, scientific values and
	increase the achievements of society based on understanding the
	history and patterns of development of the subject area, its place in
	the general system of knowledge about nature and society and in
	the development of society, technology, use different types and
	forms of physical activity rest and lead a healthy lifestyle.
	GC3. Ability to abstract thinking, analysis and synthesis.
	GC4. Ability to apply knowledge in practical situations.
	GC5. Ability to communicate in the state language both orally and
	in writing.
	GC6. Ability to communicate in a foreign language.
	GC7.Skills of information and communication technologies.
	GC8. Ability to search, process and analyze information from
	various sources.
	GC9. Ability to adapt and act in a new situation.
	GC10. Ability to be critical and self-critical.
	GC11. Ability to make informed decisions.
	GC12. Interpersonal skills.
	GC13. Ability to act socially responsibly and consciously.
Special (professional,	SC1. Ability to show knowledge and understanding of the problems
subject) competencies	of the subject area, the basics of the modern economy at the micro,
(SC)	meso, macro and international levels.
	SC2. Ability to carry out professional activities in accordance with
	applicable regulations and legal acts.
	SC3.Understanding the features of leading scientific schools and
	areas of economics.
	SC4. Ability to explain economic and social processes and
	phenomena on the basis of theoretical models, analyze and interpret
	the results.
	SC5. Understanding the features of the modern world and national
	economy, their institutional structure, justification of social,
	economic and foreign economic policy.
	SC6. Ability to apply economic-mathematical methods and models
	to solve economic problems.
	SC7. Ability to use computer technology and data processing
	software to solve economic problems, analyze information and
	prepare analytical reports.
	SC8. Ability to analyze and solve problems in the field of economic
	500. Autrity to analyze and solve problems in the field of economic

 -
and social relations.
SC9.Ability to predict on the basis of standard theoretical and
econometric models of socio-economic processes.
SC10. Ability to use modern sources of economic, social,
managerial, accounting information for the preparation of official
documents and analytical reports.
SC11. Ability to substantiate economic decisions based on
understanding the laws of economic systems and processes and
using modern methodological tools.
SC12. Ability to identify problems of an economic nature
independently in the analysis of specific situations, to suggest ways
to solve them.
SC13. Ability to conduct economic analysis of the functioning and
development of economic entities, assessment of their
competitiveness.
SC14. Ability to analyze in depth the problems and phenomena in
one or more professional areas, taking into account economic risks
and possible socio-economic consequences.
SC 15. Ability to operate information systems and application
software in the economic sphere.
SC 16. Ability to design the technological process of collecting,
processing and storing economic information.
SC 17. Ability to model economic and business processes, systems,
phenomena, using the apparatus of mathematical and computer
modeling.
7 – Program learning outcomes
1. To associate yourself as a member of civil society, the scientific
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and foreign economic policy of the state. 10. To analyze the functioning and development entities, to determine the functional areas, to calcu- indicators that characterize the effectiveness of the 11. To be able to analyze the processes of s- regulation of socio-economic and labor relations. 12. To apply the acquired theoretical knowledge to problems and meaningfully interpret the results. 13. To identify sources and understand the to determining and methods of obtaining socio-economic and analyze the necessary information, calculation social indicators. 14. To identify and plan opportunities for person development.	ulate the relevant ir activities. state and market to solve practical methodology for
<ul> <li>15. To demonstrate basic skills of creative and cresearch and professional communication.</li> <li>16. To be able to use data, provide arguments critically and draw conclusions from scientific and on economics.</li> <li>17. To perform interdisciplinary analysis of phenomena and problems in one or more profession into account the risks and possible socio-economic 18. To use normative and legal acts regulating prof 19. To use information and communication techn socio-economic problems, prepare and present anal 20. To master the skills of oral and writt communication in state and foreign languages.</li> <li>21. To be able to think abstractly, apply analysis identify key characteristics of economic systems a as well as the behavior of their subjects.</li> <li>22. To demonstrate flexibility and adaptability in rworking with new objects, and in uncertain conditi 23. To demonstrate skills of independent we critical, creative, self-critical thinking.</li> <li>24. To demonstrate the ability to act socially consciously on the basis of ethical principles, to we cultural diversity, individual differences.</li> <li>25. To demonstrate a solid understanding of the part of the part</li></ul>	te economic and onal professional ritical thinking in s, evaluate logic id analytical texts socio-economic onal areas, taking consequences. fessional activity. nologies to solve lytical reports. tten professional and synthesis to at different levels, new situations, in ions. ork, demonstrate responsibly and value and respect <i>eculiarities of the</i> <i>ce.</i>
consciously on the basis of ethical principles, to v cultural diversity, individual differences. 25. To demonstrate a solid understanding of the pe	value and respect eculiarities of the ce.
environments. 27. To model decision-making processes in uncertainty.	n conditions of
28. To develop models of business processes functional, information and management models). 29. To develop and research economic and mathem economic objects and systems in order to analyze to the management system	matical models of
the management system.	
8 – Resource support for program implementation	
Staffing Professionals who train bachelors in the Di	•
educational program must have professional	knowledge and

	professional skills in the field of mathematical modeling and (or)
	modern information technology.
	The participation of foreign specialists and practitioners is possible
	in the teaching of disciplines of the training cycle.
Material and technical	The basis of material and technical support are computer
provision	laboratories with modern hardware and software resources that
-	provide quality training for bachelors in the educational program
	"Digital Economics".
Information and	General scientific and special sources of information on the digital
educational and	economy, educational and methodological and monographic
methodical support	literature, information resources of the distance learning system and
	the Internet.
	9 – Academic mobility
National credit	National credit mobility is carried out in accordance with the
mobility	concluded agreements on academic mobility.
International credit	International credit mobility is realized through the conclusion of
mobility	agreements on international academic mobility (Erasmus +), double
	graduation, long-term international projects involving student
	education, double degree, etc.
Training of foreign	Conditions and features of the educational program in the context of
applicants for higher	teaching foreign citizens: knowledge of the Ukrainian language at a
education	level not lower than B1.

# **3.2 List of components of the educational program and their logical sequence** 3.2.1. List of EP components

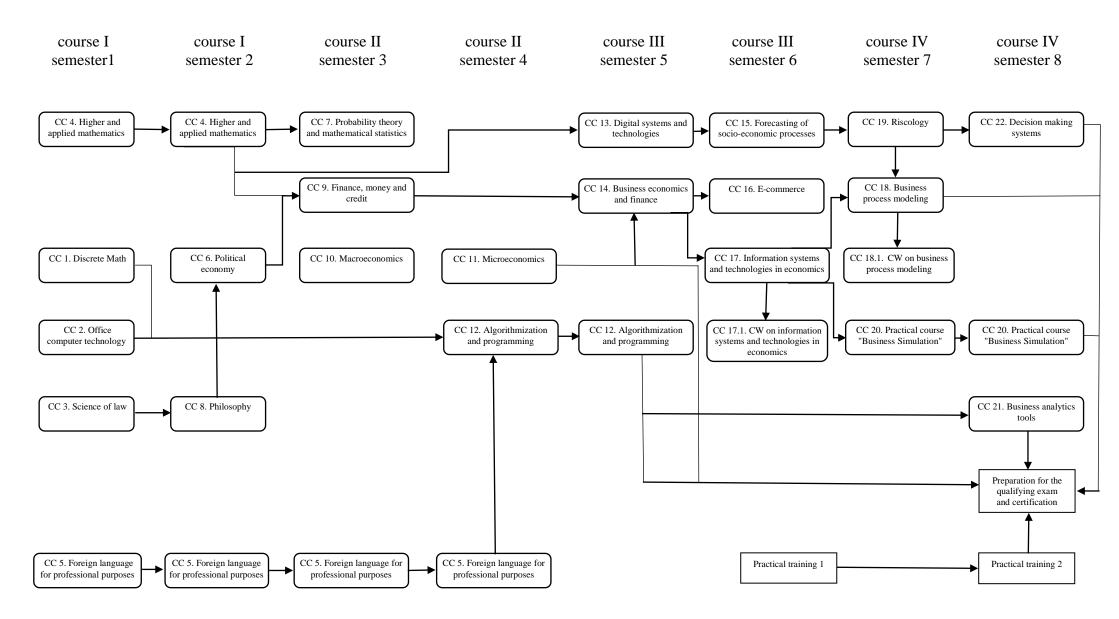
Code of	Components of educational program	Number
Discipline	(academic disciplines, course projects (works), practices, qualifying exam, final qualifying work)	of credits
	Compulsory components of educational program	
CC 1	Discrete Math	6
CC 2	Office computer technology	6
CC 3	Science of law	6
CC 4	Higher and applied mathematics	12
CC 5	Foreign language for professional purposes	24
CC 6	Political economy	6
CC 7	Philosophy	6
CC 8	Finance, money and credit	6
CC 9	Probability theory and mathematical statistics	6
CC10	Macroeconomics	6
CC 11	Microeconomics	6
CC 12	Algorithmization and programming	12
CC 13	Digital systems and technologies	6
CC 14	Business economics and finance	6
CC 15	Forecasting of socio-economic processes	9
CC 16	E-commerce	6
CC 17	Information systems and technologies in economics	6
CC17.1	CW on information systems and technologies in economics	0
CC 18	Business process modeling	6

CC18.1 CC 19	CW on business process modeling Riscology	6
CC 20	Practical course "Business Simulation"	9
CC 20	Business analytics tools	6
CC 21 CC 22	Decision making systems	6
	unt of compulsory components:	168
I Utal alliu	Selective components of educational program	100
SC1	Analysis of financial markets	6
$\frac{SC1}{SC2}$	Life safety	6
SC3	Business planning	6
<u>SC3</u> SC4	Business technology	6
SC4 SC5	Accounting	6
<u>SC5</u> SC6	Economic analysis	6
<u>SC0</u> SC7	E-government	6
SC7 SC8	Electronic document management	6
<u>SC8</u> SC9	Simulation modeling	6
<u>SC10</u>	Intellectual Property	6
<u>SC10</u> SC11	Internet technologies in business	6
SC12	Information law	6
<u>SC12</u> SC13	History of Ukraine	6
<u>SC13</u> SC14	History of Ukrainian Culture	6
SC14 SC15	Cross-platform programming	6
SC15 SC16	Cultural heritage of Ukraine	6
SC10 SC17	Machine learning	6
<u>SC17</u> SC18	Management	6
SC18 SC19	International Economics	6
SC20	International Economic Relations	6
SC20 SC21	International Economic Relations           National interests in world geopolitics and geoeconomics	6
SC22	Public speaking	6
<u>SC22</u> SC23	Organization of computer networks	6
<u>SC23</u> SC24	Payment systems	6
<u>SC24</u> SC25	Psychology	6
<u>SC25</u> SC26	Religious Studies	6
<u>SC20</u> SC27	World culture	6
SC27 SC28		6
	Digital marketing technologiesTechnology of design and administration of databases and data	
SC29	warehouses	6
SC30	Technology of creating distributed databases and knowledge	6
SC31	Ukrainian language (for professional purposes)	6
SC32	Innovation management	6
SC33	Financial services	6
SC34	Cloud and GRID technologies	6
SC35	Digital technology in business	6
SC36	Web application development technologies	6
SC37	Java distributed data processing tools	6
	Total amount of selective components:	60
	Practical training	
Practical tr	aining 1	3
Practical tr	•	6

Total	9
Certification	
Preparation for the qualifying exam and certification	3
TOTAL VOLUME OF EDUCATIONAL PROGRAM	240

For all components of educational program, the form of final control is an exam

#### 3.2.2. Structural and logical scheme of EP



#### **3.** Form of certification of higher education applicants

Certification is carried out in the form of a qualifying exam. The qualification examination in the specialty must check the achievement of learning outcomes defined by the Standard of Higher Education and this educational program.

Components	1	2	3	CC 4	35	90	57	CC 8	CC 9	CC10	CC 11	CC 12	CC 13	CC 14	CC 15	CC 16	CC 17	CC17.1	CC 18	CC18.1	CC 19	CC 20	CC 12	CC 22
Competences	CC	CC	CC	CC	CC	CC	CC	C	CC	CC	CC	CC	СС	CC	CC	CC	CC	CCI	CC	CCI	CC	CC	CC	CC
GC1.			+				+																	
GC2.							+																	
GC3.	+			+		+	+		+	+	+	+	+						+	+	+		+	+
GC4.	+	+	+	+				+	+			+	+	+	+	+	+	+	+	+	+	+	+	+
GC5.			+			+				+	+							+		+				
GC6.					+																			
GC7.	+	+										+	+		+	+	+	+	+	+	+	+	+	+
GC8.	+	+		+				+	+			+	+	+	+	+	+	+	+	+	+	+	+	+
GC9.			+				+															+		
GC10.			+				+																	
GC11.			+																		+	+		+
GC12.			+		+		+																	+
GC13.			+				+																	
SC1.		+				+		+		+	+			+	+	+			+		+			
SC2.			+											+										
SC3.						+				+	+													
SC4.						+				+	+			+	+	+			+	+	+	+		
SC5.						+		+		+	+			+										
SC6.		+		+											+				+		+	+	+	+
SC7.		+										+	+		+	+	+	+	+	+		+	+	+
SC8.						+				+	+			+		+								
SC9.		+													+							+		
SC10.		+												+										
SC11.						+		+		+	+			+	+	+	+	+				+		+
SC12.						+		+		+	+			+										
SC13.		+						+						+	+	+						+		
SC14.														+							+			
SC15		+										+					+	+	+	+		+	+	+
SC16		+														+	+	+				+	+	
SC17															+				+	+	+	+		+

# 4.1. Matrix of correspondence of program competencies to compulsory components of educational program

SC 11 SC 12 SC 13 SC 14 SC 15 SC 16 SC 17 SC 18 SC 19 SC 20 SC 23 SC 26 SC 28 SC 29 SC 30 SC 32 SC 34 SC 35 SC 36 SC 24 SC 25 SC 27 SC 33 SC 37 SC 1 SC 3 SC 4 SC 5 SC 6 SC 7 SC 8 SC 9 SC10 SC 21 SC 22 SC 31 SC 2 mpeter + GC1 + +GC2 + + + + + + GC3 + ++ GC4 ++ + +++ + GC5 + + GC6 + + GC7 ++++ ++ ++++ + + + + GC8 + + +++ + + GC9 + + +GC10 ++ GC11 + + ++ GC12 + + + GC13 + + SC1 + + + + + ++ SC2 + + SC3 + + SC4 + + + SC5 + + + SC6 ++SC7 +++ ++++++++ + SC8 + ++ + + +SC9 + + +SC10 + + +SC11  $^+$ + ++ +++ + +SC12 ++ SC13 ++SC14 + + ++ SC15 ++++++ + $^+$  $^+$ +++SC16 +  $^+$ ++++++SC17 ++

**4.2.** Matrix of correspondence of program competencies to selective components of the educational program

																		mpo							,
Components Program learning outcomes	CC 1	CC 2	CC 3	CC 4	CC 5	CC 6	CC 7	CC 8	CC 9	CC10	CC11	CC12	CC13	CC14	CC15	CC16	CC17	CC7.1	CC 18	CC18.1	CC 19	CC 20	CC 21	CC 22	
1			+				+																		
2			+				+																		
3						+				+	+			+											
4						+				+	+			+	+	+	+	+			+				
5						+		+		+	+			+		+	+	+			+	+		+	
6						+	+			+	+			+											
7						+		+		+	+			+					+	+					
8		+		+					+						+						+	+	+	+	
9			+			+		+		+	+					+									
10								+						+	+							+			
11			+			+				+	+				+										
12	+	+		+				+	+			+	+	+	+	+	+	+	+	+	+	+	+	+	
13		+		+					+			+			+		+	+			+	+	+		
14					+		+																		
15							+																	+	
16				+		+				+	+														
17																					+				
18			+											+											
19		+										+	+		+		+	+	+	+		+	+	+	
20					+																				
21	+			+		+			+	+	+	+				+			+	+		+	+	+	
22																					+			+	
23 24							+					+													
24			+				+																		
25 26													+	+	+	+	+	+				+		+	
												+											+		
27									+														+	+	
28														+			+	+	+	+					
29															+						+			+	

### 5.1. Matrix of providing program learning outcomes with relevant compulsory components of educational program

	J.,	<b>Z</b> . I	lau	I X	or h	0101	lui	ng l	prož	grai	II IC	an	ung	, ou	ico	me	SW	ա	reie	eva.	ni s	sere	cuv	e c	omj	pon	lent	5 01	eu	uca	uo	llai	pre	ugr	am		
Compo- nents Program learning outcomes	SC 1	SC 2	SC 3	SC 4	SC 5	SC 6	SC 7	SC 8	SC 9	SC 10	SC 11	SC 12	SC 13	SC 14	SC 15	SC 16	SC 17	SC 18	SC 19	SC 20	SC 21	SC 22	SC 23	SC 24	SC 25	SC 26	SC 27	SC 28	SC 29	SC 30	SC 31	SC 32	SC 33	SC 34	SC 35	SC 36	SC 37
1										+		+																									1
2		+											+	+		+					+						+										1
3						+													+	+																	1
4																			+	+				+									+				1
5			+			+	+											+														+					1
6						+																+															1
7																			+	+																	1
8									+								+																				1
9																			+	+	+																1
10	+		+			+																															1
11	+									+																							+				
12			+					+							+									+				+								+	+
13	+				+	+		+							+																					í I	
14																		+							+												
15																						+			+							+					1
16																						+															1
17																							+														1
18										+		+																									
19					+		+				+				+														+	+				+	+		+
20																						+									+						-
21									+						+																						+
22			+																													+					
23															+			+							+												+
24																					+				1	+	+										
25							+	+			+													+				+						+	+	+	
26									+						+		+								1				+	+							
27									+								+								1												
28			+	+			l		+																l				+	+					+		
29							l		+								+								l	1											i – – – –

# 5.2. Matrix of providing program learning outcomes with relevant selective components of educational program

# Change registration sheet

Change registration sheet					
№ ord.	Date	Items to be amended	Initiator of change	Surname, initials of the person responsible for making changes	Signature