#### 3. Educational program.

Digital Economics (Bachelor's degree) - the educational program director - Ivanova O.M., PhD in Economics, Associate Professor, Associate Professor of Digital Economics and Systems Analysis.

## 3.1 Profile of the educational program in the subject area 051 "Economics"

	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
<b>Higher education</b>	Bachelor's degree
degree and title of	Subject Area "Economics"
qualification in the	
original language	
Official name of the	"Digital Economics"
educational program	
Conformity to the	The SVO of the Ministry of Education and Science of Ukraine is in
standard of higher	charge
education of the	
Ministry of Education	
and Science of	
Ukraine	
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	
The term of validity of	4 years
the educational	
program	
<b>Internet address of the</b>	https://knute.edu.ua
permanent placement	
of the educational	
program description	
	2 – Purpose of educational program
	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,
their research and analysis	s to make effective business decisions.
	3 - Characteristics of educational program
Subject area	Object of study and/or activity: patterns of functioning and
	development of socio-economic systems, socio-economic processes,

	their modeling, of economic sub	forecasting and regulation, motivation and behavior
		•
		training specialists who possess modern economic tical knowledge and practical skills necessary for
	_	s of the subject area.
		ntent of the subject area: concepts, categories,
		ples of economic sciences.
		iques and technologies: general scientific methods
		nd research activity, mathematical and statistical
	methods of e	conomic analysis, economic and mathematical
		nation and communication technologies of research,
	dissemination ar	nd presentation of research results.
	Tools and equ	ipment: modern information and communication
	equipment, info	ormation systems and software products used in
	professional acti	
Orientation of		professional. Emphasis on the study of real economic
educational program		igital space in compliance with the principles of building
		odels and the use of information systems and their
7.7.4.0	practical implement	
Main focus of	-	on in economics with the use of economic and
educational program		deling and digital technologies in economics.
	II = = = = = = = = = = = = = = = = = =	omic systems, economic processes, digital systems,
		ries, mathematical modeling, mathematical methods, tems, information technologies, decision making,
	-	agement, digital infrastructure, digital space.
		igement, digital initiasi actare, digital space.
Program features	Professional and	practical training involves the study of educational
Program features		practical training involves the study of educational will allow mastering the theoretical knowledge and
Program features	components that	will allow mastering the theoretical knowledge and
Program features	components that	will allow mastering the theoretical knowledge and f modeling and information management of economic
Program features	components that practical skills of systems in the dig	will allow mastering the theoretical knowledge and f modeling and information management of economic gital space.  bility of graduates
	components that practical skills of systems in the dig 4 – Suita to employmen	will allow mastering the theoretical knowledge and f modeling and information management of economic gital space.  bility of graduates and further training
Suitability for	components that practical skills of systems in the dig 4 – Suital to employment. The field of professional systems in the digital systems in the digital systems in the digital systems.	will allow mastering the theoretical knowledge and f modeling and information management of economic gital space.  bility of graduates  nt and further training  fessional activity of graduates is the study of objects
	components that practical skills of systems in the dig 4 – Suital to employmen The field of profund processes of	will allow mastering the theoretical knowledge and f modeling and information management of economic gital space.  bility of graduates  nt and further training  fessional activity of graduates is the study of objects of the digital economy by building and analyzing
Suitability for	components that practical skills of systems in the dig 4 – Suital to employmen. The field of profund and processes of economic model.	will allow mastering the theoretical knowledge and f modeling and information management of economic gital space.  bility of graduates  t and further training fessional activity of graduates is the study of objects of the digital economy by building and analyzing is and their information support.
Suitability for	components that practical skills of systems in the dig 4 – Suital to employmen The field of profund processes of economic model The list of economic	will allow mastering the theoretical knowledge and f modeling and information management of economic gital space.  bility of graduates  nt and further training  fessional activity of graduates is the study of objects of the digital economy by building and analyzing
Suitability for	components that practical skills of systems in the dig 4 – Suital to employmen. The field of profund and processes of economic model.	will allow mastering the theoretical knowledge and f modeling and information management of economic gital space.  bility of graduates  t and further training fessional activity of graduates is the study of objects of the digital economy by building and analyzing is and their information support.
Suitability for	components that practical skills of systems in the dig 4 – Suital to employmen.  The field of profund and processes of economic model. The list of economic able to perform:	will allow mastering the theoretical knowledge and f modeling and information management of economic gital space.  bility of graduates  t and further training fessional activity of graduates is the study of objects of the digital economy by building and analyzing is and their information support.  bmic activities that a bachelor in digital economics is
Suitability for	components that practical skills of systems in the dig 4 – Suital to employmen.  The field of profund processes of economic model. The list of economic able to perform:  Code of	will allow mastering the theoretical knowledge and f modeling and information management of economic gital space.  bility of graduates  t and further training fessional activity of graduates is the study of objects of the digital economy by building and analyzing is and their information support.
Suitability for	components that practical skills of systems in the dig 4 – Suital to employment. The field of protand processes of economic model. The list of economic able to perform:  Code of CTEA SC	will allow mastering the theoretical knowledge and f modeling and information management of economic gital space.  bility of graduates  t and further training fessional activity of graduates is the study of objects of the digital economy by building and analyzing is and their information support.  bmic activities that a bachelor in digital economics is
Suitability for	components that practical skills of systems in the dig 4 – Suital to employmen.  The field of profund and processes of economic model. The list of economic able to perform:  Code of CTEA SC 009:2010	will allow mastering the theoretical knowledge and f modeling and information management of economic gital space.  bility of graduates  nt and further training  fessional activity of graduates is the study of objects of the digital economy by building and analyzing is and their information support.  omic activities that a bachelor in digital economics is  Name of the type of economic activity
Suitability for	components that practical skills of systems in the dig 4 – Suital to employment. The field of protand processes of economic model. The list of economic able to perform:  Code of CTEA SC	will allow mastering the theoretical knowledge and f modeling and information management of economic gital space.  bility of graduates  the and further training fessional activity of graduates is the study of objects of the digital economy by building and analyzing and their information support.  biginal space.  Name of the type of economic activity  Consulting on informatization
Suitability for	components that practical skills of systems in the dig 4 – Suital to employment. The field of profund processes of economic model. The list of economic able to perform:  Code of CTEA SC 009:2010 62.02	will allow mastering the theoretical knowledge and f modeling and information management of economic gital space.  bility of graduates  nt and further training  fessional activity of graduates is the study of objects of the digital economy by building and analyzing is and their information support.  omic activities that a bachelor in digital economics is  Name of the type of economic activity
Suitability for	components that practical skills of systems in the dig 4 – Suital to employment. The field of profund processes of economic model. The list of economic able to perform:  Code of CTEA SC 009:2010 62.02	will allow mastering the theoretical knowledge and f modeling and information management of economic gital space.  bility of graduates  the and further training fessional activity of graduates is the study of objects of the digital economy by building and analyzing and their information support.  being a ctivities that a bachelor in digital economics is  Name of the type of economic activity  Consulting on informatization  Data processing, posting of information on web
Suitability for	components that practical skills of systems in the dig 4 – Suital to employment. The field of profund processes of economic model. The list of economic model able to perform:  Code of CTEA SC 009:2010 62.02 63.11 63.12	will allow mastering the theoretical knowledge and f modeling and information management of economic gital space.  bility of graduates  the and further training fessional activity of graduates is the study of objects of the digital economy by building and analyzing is and their information support.  Omic activities that a bachelor in digital economics is  Name of the type of economic activity  Consulting on informatization  Data processing, posting of information on web sites and related activities  Web portals  ital Economics positions:
Suitability for	components that practical skills of systems in the dig   4 - Suital to employment   The field of protand processes of economic model   The list of economic able to perform:  Code of CTEA SC   009:2010   62.02   63.11   63.12   Bachelor of Dig   Code of SC	will allow mastering the theoretical knowledge and f modeling and information management of economic gital space.  bility of graduates  that and further training fessional activity of graduates is the study of objects of the digital economy by building and analyzing and their information support.  big of the digital economic activities that a bachelor in digital economics is only activities that a bachelor in digital economics is  Name of the type of economic activity  Consulting on informatization  Data processing, posting of information on web sites and related activities  Web portals
Suitability for	components that practical skills of systems in the dig 4 – Suital to employment. The field of professes of economic model. The list of economic model. The list of economic model able to perform:  Code of CTEA SC 009:2010 62.02 63.11  63.12  Bachelor of Dig Code of SC 003:2010	will allow mastering the theoretical knowledge and f modeling and information management of economic gital space.  bility of graduates that and further training fessional activity of graduates is the study of objects of the digital economy by building and analyzing and their information support.  binic activities that a bachelor in digital economics is  Name of the type of economic activity  Consulting on informatization  Data processing, posting of information on web sites and related activities  Web portals  ital Economics positions:  Profession name
Suitability for	components that practical skills of systems in the dig 4 – Suital to employmer.  The field of profused and processes of economic model. The list of economic able to perform:  Code of CTEA SC 009:2010 62.02 63.11  63.12  Bachelor of Dig Code of SC 003:2010 1226.2	will allow mastering the theoretical knowledge and f modeling and information management of economic gital space.  bility of graduates that and further training fessional activity of graduates is the study of objects of the digital economy by building and analyzing is and their information support.  bomic activities that a bachelor in digital economics is consulting on informatization  Data processing, posting of information on web sites and related activities  Web portals  ital Economics positions:  Profession name  Head of structural unit (information protection)
Suitability for	components that practical skills of systems in the dig 4 – Suital to employment. The field of professes of economic model. The list of economic model. The list of economic model able to perform:  Code of CTEA SC 009:2010 62.02 63.11  63.12  Bachelor of Dig Code of SC 003:2010	will allow mastering the theoretical knowledge and f modeling and information management of economic gital space.  bility of graduates that and further training fessional activity of graduates is the study of objects of the digital economy by building and analyzing and their information support.  binic activities that a bachelor in digital economics is  Name of the type of economic activity  Consulting on informatization  Data processing, posting of information on web sites and related activities  Web portals  ital Economics positions:  Profession name

	2131.2	Computer systems analyst
	2139.2	Computer application engineer
	2139.2	Information Technology Management Expert
	2419.2	Specialist in economic modeling of ecological
	2417.2	systems
	2433.1	Researcher-consultant (information analytics)
	2441.2	Economist of the computer (information and
	2441.2	computing) center
	3121	Information technology specialist
	3121	information technology specialist
	following areas	sition of relevant experience he can adapt to the of related professional activities: marketing, foreign
	economic, educa	·
Further training	program "Digital related fields, as	udy for a master's degree in the educational-professional Economics" or educational-professional programs in well as to improve their skills and receive additional
	postgraduate educ	
		ing and assessment
Teaching and learning		learning, self-learning, learning through practical
T 1 4	training.	
Evaluation		written exams, certification. Evaluation is carried out in
		he "Regulations on the assessment of learning outcomes
		graduate students of SUTE", "Regulations on the
		ne educational process of students"
T 4 1		ram competencies
Integral competence	_	lve complex specialized tasks and practical problems
		sphere, which are characterized by the complexity
		of conditions, which involves the application of
		thods of economic science, digital and information
C	technologies.	
General competencies (GC)	of society, to rea	exercise one's rights and responsibilities as a member alize the values of civil (democratic) society and the anable development, the rule of law, human and civil
	_	o preserve moral, cultural, scientific values and
	•	hievements of society based on understanding the
		erns of development of the subject area, its place in
		em of knowledge about nature and society and in the
		society, technology, use different types and forms of
	_	rest and lead a healthy lifestyle.
		abstract thinking, analysis and synthesis.
	-	apply knowledge in practical situations.
	_	communicate in the state language both orally and in
	writing.	and in
	_	communicate in a foreign language.
	_	formation and communication technologies.
		o search, process and analyze information from
	various sources.	± • • • • • • • • • • • • • • • • • • •
		adapt and act in a new situation.
		be critical and self-critical.

GC11. Ability to make informed decisions.

GC12. Interpersonal skills.

GC13. Ability to act socially responsibly and consciously.

# Special (professional, subject) competencies (SC)

SC1. Ability to show knowledge and understanding of the problems of the subject area, the basics of the modern economy at the micro, 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 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 community, recognize the rule of law, in particular in professional activities, understand and be able to exercise their rights and freedoms, show respect for the rights and freedoms of others, including members of the team.
- 2. To reproduce moral, cultural, scientific values, to increase the achievements of society in the socio-economic sphere, to promote a healthy lifestyle.
- 3. To know and use economic terminology, explain the basic concepts of micro-and macroeconomics,
- 4. To understand the principles of economic science, features of economic systems.
- 5. To apply analytical and methodological tools to substantiate proposals and make management decisions by various economic agents (individuals, households, enterprises and public authorities).
- 6. To use professional arguments to convey information, ideas, problems and ways to solve them to specialists and non-specialists in the field of economic activity.
- 7. To explain the models of socio-economic phenomena in terms of fundamental principles and knowledge based on understanding the main directions of economic science.
- 8. To apply appropriate economic and mathematical methods and models to solve economic problems.
- 9. To understand the main features of the modern world and national economy, institutional structure, areas of social, economic and foreign economic policy of the state.
- 10. To analyze the functioning and development of economic entities, to determine the functional areas, to calculate the relevant indicators that characterize the effectiveness of their activities.
- 11. To be able to analyze the processes of state and market regulation of socio-economic and labor relations.
- 12. To apply the acquired theoretical knowledge to solve practical problems and meaningfully interpret the results.
- 13. To identify sources and understand the methodology for determining and methods of obtaining socio-economic data, collect and analyze the necessary information, calculate economic and social indicators.
- 14. To identify and plan opportunities for personal professional development.
- 15. To demonstrate basic skills of creative and critical thinking in research and professional communication.
- 16. To be able to use data, provide arguments, evaluate logic critically and draw conclusions from scientific and analytical texts on economics.
- 17. To perform interdisciplinary analysis of socio-economic phenomena and problems in one or more professional areas, taking into account the risks and possible socio-economic consequences.

	18. To use normative and legal acts regulating professional activity.
	19. To use information and communication technologies to solve
	socio-economic problems, prepare and present analytical reports.
	20. To master the skills of oral and written professional
	communication in state and foreign languages.
	21. To be able to think abstractly, apply analysis and synthesis to
	identify key characteristics of economic systems at different levels,
	as well as the behavior of their subjects.
	22. To demonstrate flexibility and adaptability in new situations, in
	working with new objects, and in uncertain conditions.
	23. To demonstrate skills of independent work, demonstrate critical,
	creative, self-critical thinking.
	24. To demonstrate the ability to act socially responsibly and
	consciously on the basis of ethical principles, to value and respect
	cultural diversity, individual differences.
	25. To demonstrate a solid understanding of the peculiarities of the
	functioning of economic systems in the digital space.
	26. To carry out programming using tools in different software
	environments.
	27. To model decision-making processes in conditions of uncertainty.
	28. To develop models of business processes (organizational,
	functional, information and management models).
	29. To develop and research economic and mathematical models of
	economic objects and systems in order to analyze them and improve
Q 1	the management system.  Resource support for program implementation
Staffing	Professionals who train bachelors in the Digital Economics
	Professionals who train bachelors in the Digital Economics educational program must have professional knowledge and
	Professionals who train bachelors in the Digital Economics educational program must have professional knowledge and professional skills in the field of mathematical modeling and (or)
	Professionals who train bachelors in the Digital Economics educational program must have professional knowledge and professional skills in the field of mathematical modeling and (or) modern information technology.
	Professionals who train bachelors in the Digital Economics educational program must have professional knowledge and professional skills in the field of mathematical modeling and (or)
	Professionals who train bachelors in the Digital Economics 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
Staffing	Professionals who train bachelors in the Digital Economics 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.  The basis of material and technical support are computer laboratories with modern hardware and software resources that provide quality
Staffing  Material and technical	Professionals who train bachelors in the Digital Economics 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.  The basis of material and technical support are computer laboratories with modern hardware and software resources that provide quality training for bachelors in the educational program "Digital
Staffing  Material and technical provision	Professionals who train bachelors in the Digital Economics 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.  The basis of material and technical support are computer laboratories with modern hardware and software resources that provide quality training for bachelors in the educational program "Digital Economics".
Material and technical provision  Information and	Professionals who train bachelors in the Digital Economics 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.  The basis of material and technical support are computer laboratories with modern hardware and software resources that provide quality training for bachelors in the educational program "Digital Economics".  General scientific and special sources of information on the digital
Material and technical provision  Information and educational and	Professionals who train bachelors in the Digital Economics 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.  The basis of material and technical support are computer laboratories with modern hardware and software resources that provide quality training for bachelors in the educational program "Digital Economics".  General scientific and special sources of information on the digital economy, educational and methodological and monographic
Material and technical provision  Information and	Professionals who train bachelors in the Digital Economics 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.  The basis of material and technical support are computer laboratories with modern hardware and software resources that provide quality training for bachelors in the educational program "Digital Economics".  General scientific and special sources of information on the digital economy, educational and methodological and monographic literature, information resources of the distance learning system and
Material and technical provision  Information and educational and	Professionals who train bachelors in the Digital Economics 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.  The basis of material and technical support are computer laboratories with modern hardware and software resources that provide quality training for bachelors in the educational program "Digital Economics".  General scientific and special sources of information on the digital economy, educational and methodological and monographic literature, information resources of the distance learning system and the Internet.
Material and technical provision  Information and educational and methodical support	Professionals who train bachelors in the Digital Economics 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.  The basis of material and technical support are computer laboratories with modern hardware and software resources that provide quality training for bachelors in the educational program "Digital Economics".  General scientific and special sources of information on the digital economy, educational and methodological and monographic literature, information resources of the distance learning system and the Internet.  9 – Academic mobility
Material and technical provision  Information and educational and methodical support  National credit	Professionals who train bachelors in the Digital Economics 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.  The basis of material and technical support are computer laboratories with modern hardware and software resources that provide quality training for bachelors in the educational program "Digital Economics".  General scientific and special sources of information on the digital economy, educational and methodological and monographic literature, information resources of the distance learning system and the Internet.  9 – Academic mobility  National credit mobility is carried out in accordance with the
Material and technical provision  Information and educational and methodical support  National credit mobility	Professionals who train bachelors in the Digital Economics 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.  The basis of material and technical support are computer laboratories with modern hardware and software resources that provide quality training for bachelors in the educational program "Digital Economics".  General scientific and special sources of information on the digital economy, educational and methodological and monographic literature, information resources of the distance learning system and the Internet.  9 – Academic mobility  National credit mobility is carried out in accordance with the concluded agreements on academic mobility.
Material and technical provision  Information and educational and methodical support  National credit mobility International credit	Professionals who train bachelors in the Digital Economics 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.  The basis of material and technical support are computer laboratories with modern hardware and software resources that provide quality training for bachelors in the educational program "Digital Economics".  General scientific and special sources of information on the digital economy, educational and methodological and monographic literature, information resources of the distance learning system and the Internet.  9 – Academic mobility  National credit mobility is carried out in accordance with the concluded agreements on academic mobility.  International credit mobility is realized through the conclusion of
Material and technical provision  Information and educational and methodical support  National credit mobility	Professionals who train bachelors in the Digital Economics 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.  The basis of material and technical support are computer laboratories with modern hardware and software resources that provide quality training for bachelors in the educational program "Digital Economics".  General scientific and special sources of information on the digital economy, educational and methodological and monographic literature, information resources of the distance learning system and the Internet.  9 – Academic mobility  National credit mobility is carried out in accordance with the concluded agreements on academic mobility.  International credit mobility is realized through the conclusion of agreements on international academic mobility (Erasmus +), double
Material and technical provision  Information and educational and methodical support  National credit mobility International credit	Professionals who train bachelors in the Digital Economics 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.  The basis of material and technical support are computer laboratories with modern hardware and software resources that provide quality training for bachelors in the educational program "Digital Economics".  General scientific and special sources of information on the digital economy, educational and methodological and monographic literature, information resources of the distance learning system and the Internet.  9 – Academic mobility  National credit mobility is carried out in accordance with the concluded agreements on academic mobility.  International credit mobility is realized through the conclusion of agreements on international academic mobility (Erasmus +), double graduation, long-term international projects involving student
Material and technical provision  Information and educational and methodical support  National credit mobility International credit mobility	Professionals who train bachelors in the Digital Economics 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.  The basis of material and technical support are computer laboratories with modern hardware and software resources that provide quality training for bachelors in the educational program "Digital Economics".  General scientific and special sources of information on the digital economy, educational and methodological and monographic literature, information resources of the distance learning system and the Internet.  9 – Academic mobility  National credit mobility is carried out in accordance with the concluded agreements on academic mobility.  International credit mobility is realized through the conclusion of agreements on international academic mobility (Erasmus +), double graduation, long-term international projects involving student education, double degree, etc.
Material and technical provision  Information and educational and methodical support  National credit mobility International credit	Professionals who train bachelors in the Digital Economics 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.  The basis of material and technical support are computer laboratories with modern hardware and software resources that provide quality training for bachelors in the educational program "Digital Economics".  General scientific and special sources of information on the digital economy, educational and methodological and monographic literature, information resources of the distance learning system and the Internet.  9 – Academic mobility  National credit mobility is carried out in accordance with the concluded agreements on academic mobility.  International credit mobility is realized through the conclusion of agreements on international academic mobility (Erasmus +), double graduation, long-term international projects involving student education, double degree, etc.  Conditions and features of the educational program in the context of
Material and technical provision  Information and educational and methodical support  National credit mobility International credit mobility  Training of foreign	Professionals who train bachelors in the Digital Economics 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.  The basis of material and technical support are computer laboratories with modern hardware and software resources that provide quality training for bachelors in the educational program "Digital Economics".  General scientific and special sources of information on the digital economy, educational and methodological and monographic literature, information resources of the distance learning system and the Internet.  9 – Academic mobility  National credit mobility is carried out in accordance with the concluded agreements on academic mobility.  International credit mobility is realized through the conclusion of agreements on international academic mobility (Erasmus +), double graduation, long-term international projects involving student education, double degree, etc.

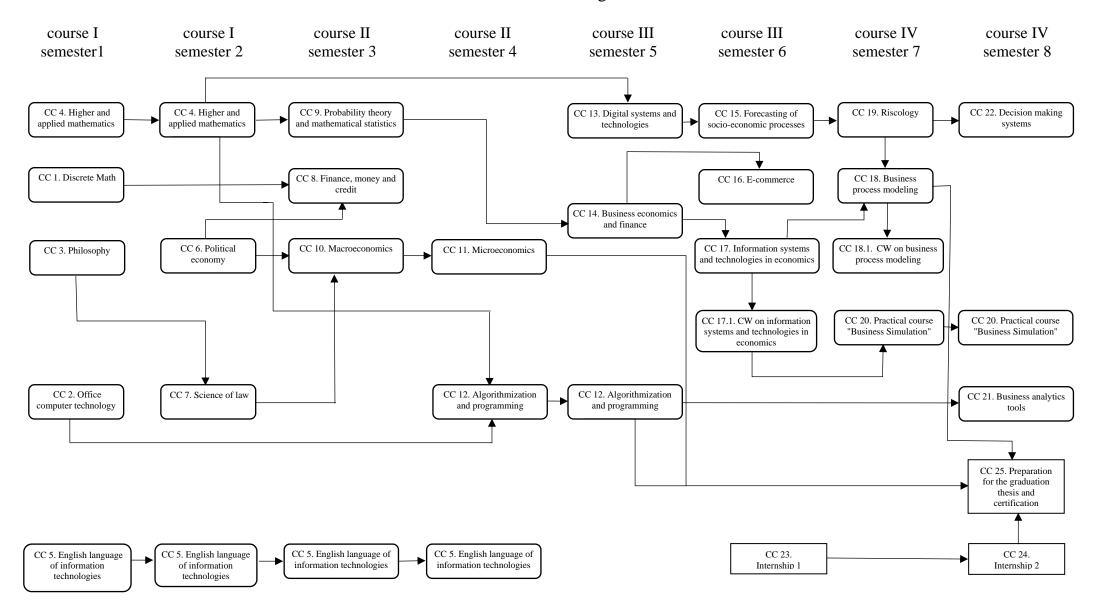
# **3.2 List of components of the educational program and their logical sequence** 3.2.1. List of EP components

Code of Discipline	Components of educational program (academic disciplines, course projects (works), practices,	Number of credits
	qualifying exam, graduation thesis)	
	Compulsory components of the educational program	
CC 1	Discrete Math	6
CC 2	Office computer technology	6
CC 3	Philosophy	6
CC 4	Higher and applied mathematics	12
CC 5	English language of information technologies	24
CC 6	Political economy	6
CC 7	Science of law	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	-
CC17.1	CW on information systems and technologies in economics	6
CC 18	Business process modeling	
CC18.1	CW on business process modeling	6
CC 19	Riscology	6
CC 20	Practical course "Business Simulation"	9
CC 21	Business analytics tools	6
CC 22	Decision making systems	6
CC 23	Internship 1	3
CC 24	Internship 2	6
CC 25	Preparation for the graduation thesis and certification	3
Total amou	int of compulsory components:	180
	Elective components of the educational program	<u>.</u>
EC1	Analysis of financial markets	6
EC2	Life safety	6
EC3	Business planning	6
EC4	Business technology	6
EC5	Accounting	6
EC6	Economy and organization of the information services market	6
EC7	Economic analysis	6
EC8	Electronic governance	6
EC9	Electronic document management	6

EC10	Simulation modeling	6
EC11	Instrumental means of applied programming	6
EC12	Intellectual Property	6
EC13	Internet technologies in business	6
EC14	Informational law	6
EC15	Information wars	6
EC16	History of Ukraine	6
EC17	History of Ukrainian Culture	6
EC18	Cross-platform programming	6
EC19	Cultural heritage of Ukraine	6
EC20	Machine learning	6
EC21	Management	6
EC22	International Economics	6
EC23	International Economic Relations	6
EC24	National interests in world geopolitics and geoeconomics	6
EC25	Public speaking	6
EC26	Organization of computer networks	6
EC27	Fundamentals of cyber security	6
EC28	Payment systems	6
EC29	Psychology	6
EC30	Religious studies	6
EC31	World culture	6
EC32	Business analytics systems in international business	6
EC33	Digital marketing technologies	6
EC34	Design and administration technology of databases and data warehouses	6
EC35	Technology for creating distributed databases and knowledge	6
EC36	Ukrainian language (for specific purposes)	6
EC30	Management of innovations	6
EC38	Financial Services	6
EC39	Cloud and GRID technologies	6
EC40	Digital technologies in business	6
EC41	Web application development technologies	6
	ount of elective components:	60
	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 the students

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.

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

Components	CC 1	CC 2	CC 3	CC 4	CC 5	9 DD	CC 7	CC 8	6 DD	CC 10	CC 11	C 12	CC 13	CC 14	2.15	CC 16	3 17	CC 17.1	CC 18	CC 18.1	CC 19	2 20	CC 12	CC 22	2 23	3 24	2 25
Competences	C	C	C	Ö	O	Ö	Ö	Ö	C	S	Ö	CC	Ö	C	CC	Ö	CC	CC	CC	$\mathcal{C}$	CC	CC	CC	C	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															+				+	+	+	+		+	+	+	+

## 4.2. Matrix of correspondence of program competencies to elective components of the educational program

Components Competences	EC 1	EC 2	EC 3	EC4	EC 5	EC 6	EC 7	EC 8	EC 9	EC 10	EC 11	EC 12	EC 13	EC 14	EC 15	EC 16	EC 17	EC 18	EC 19	EC 20	EC 21	EC 22	EC 23	EC 24	EC 25	EC 26	EC 27	EC 28	EC 29	EC 30	EC 31	EC 32	EC 33	EC 34	EC 35	EC 36	EC 37	EC 38	EC 39	EC 40	EC 41
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										+	+									+												+									

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

Components																											
Program Learning outcomes	CC 1	CC 2	CC 3	CC 4	\$ DD	9 DD	<i>L</i>	8 DD	6 22	CC 10	CC 11	CC 12	CC 13	CC 14	CC 15	CC 16	CC 17	CC 17.1	CC 18	CC 18.1	CC 19	CC 20	CC 21	CC 22	CC 23	CC 24	CC 25
1			+				+																				
2			+				+																				
3						+				+	+			+													+
4						+				+	+			+	+	+	+	+			+						+
5						+		+		+	+			+		+	+	+			+	+		+	+	+	+
6			+			+				+	+			+													
7						+		+		+	+			+					+	+					+	+	+
8		+		+					+						+						+	+	+	+	+	+	+
9						+	+	+		+	+					+											+
10								+						+	+							+			+	+	+
11						+	+			+	+				+												+
12	+	+		+				+	+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
13		+		+					+			+			+		+	+			+	+	+		+	+	+
14			+		+																						
15			+																					+			
16				+		+				+	+														+	+	+
17																					+						+
18							+							+													
19		+										+	+		+		+	+	+	+		+	+	+	+	+	+
20					+																						+
21	+			+		+			+	+	+	+				+			+	+		+	+	+			+
22																					+			+	+	+	
23			+									+															
24			+				+																				
25													+	+	+	+	+	+				+		+	+	+	+
26												+											+		+	+	+
27									+														+	+	+	+	+
28														+			+	+	+	+					+	+	+
29															+						+			+	+	+	+

### 4.4. Matrix of providing program learning outcomes with relevant elective components of the educational program

Components  Program Learning outcoms	, EC 1	EC 2	EC 3	EC 4	EC 5	EC 6	EC 7	EC 8	EC 9	EC 10	EC 11	EC 12	EC 13	EC 14	EC 15	EC 16	EC 17	EC 18	EC 19	EC 20	EC 21	EC 22	EC 23	EC 24	EC 25	EC 26	EC 27	EC 28	EC 29	EC 30	EC 31	EC 32	EC 33	EC 34	EC 35	EC 36	EC 37	EC 38	EC 39	EC 40	EC 41
1												+		+	+													+													
2		+														+	+		+					+							+										
3							+															+	+																		
4						+																+	+				+											+			
5			+				+	+			+										+											+					+				
6							+								+										+																
7						+																+	+																		
8										+										+												+									
9						+									+							+	+	+																	
10	+		+			+	+																																		
11	+											+																										+			
12			+						+		+							+									+	+					+								+
13	+				+		+		+						+			+																							
14																					+								+												
15															+										+				+								+				
16																									+																
17																										+															
18												+		+														+													
19					+			+			+		+					+														+		+	+				+	+	
20																									+											+					
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22			+												+													+									+				
23											+							+			+								+			+									
24															+									+					j	+	+										
25						+		+	+		+		+														+					+	+						+	+	+
26										+	+							+		+												+		+	+						
27										+										+																					
28			+	+		+				+																								+	+					+	
29										+										+												+									

**Change registration sheet** 

			ange registration		1
№ ord.	Date	Items to be amended	Initiator of change	Surname, initials of the person responsible for making changes	Signature