4. Educational Program

Project team manager (program guarantor) Candidate of Sciences (Physics and Mathematics) Ass. Prof. Cherevko M.O.

Kyiv National	University of Trade and Economics
Faculty of International Trade and Law	
EDUCATIONAL – PROFESSIONAL PROGRAM	
Specialization	**«Computer science and information technologies»**
Speciality	**122 «Computer science and information technologies»**
Field of knowledge	**12 «Information technologies»**
Level of higher education	**First**
Degree of higher education	**Bachelor**
Total number of credits	**240**
Training period	**46 months**

1	Requirements for the level of education of persons who begin training in educational and professional program		
	− complete secondary education; − conditions of admission to the program are governed by the Rules of admission to KNUTE		
2	**List of academic disciplines**		
	Academic disciplines	**ECTS credits (for every subjects)**	*Position in a logical sequence of studying (year of training)*
	1. Higher and applied mathematics	12	1
	2. Descrete mathematics	6	1
	3. Economic Theory	4,5	1
	4. The Ukrainian language for specific purposes	3	1
	5. Foreign language for specific purposes	18	1-3
	6. Life safety	3	1
	7.1 Theory of information and coding	4,5	1
	7.2 Engineering and Computer graphics	4,5	1
	8. Physical Education		
	9. International economics	21	1-4
	10. Algorythmization and programming	4,5	1
		4,5	1

11. Jurisprudence		
12.1 Theory of organizations	3	1
12.2 Fundamentals of management	3	1
13. Probability theory and	3	1
mathematical statistics	3	2
14. System analysis		
15. Designing of information systems	4,5	2
16. Physics	4,5	2
17.1 Finance, Money and Credit		
17.2 Tax system of Ukraine	3	2
18.1 Theory of algorithms	4,5	2
18.2 Algorithms and data structures	4,5	2
19. Simulation modeling in	4,5	2
International trade	4,5	2
19.1 Course work on Simulation modeling in International trade	9	2-3
20. Electrical engineering		
21. Computer architectures	3	2
22. Economy and finance of an	3	2
enterprise	4,5	2
23. Philosophy		
24.1 Organization of data and	4,5	2
knowledge bases	4,5	2
24.2 Data basis		
25. Project Management	4,5	2
26. Data intellectual analysis	4,5	3
27. Object-oriented programming	4,5	3
28.1 International economic activity	4,5	3
of Ukraine	4,5	3
28.2 Enterprise Foreign Economic Activity	4,5	3
29.1 Entrepreneurial Law		
29.2 Financial Law	4,5	3
30. Military training	4,5	3
31. Investigation of operations	18	3-4
32 Information Technologies in	3	3
international currency and financial -	4,5	3
credit transactions		
33. Operational systems		
34. Technology of computer	4,5	3
designing	4,5	3
35.1. Software analysis		
35.2. Architecture and software	4,5	3

	Credits	Semester
engineering	4,5	3
35.3. Software program and data safety	4,5	3
36.1. Separated systems and parallel computing technology	3	3
36.2. Web-design and Web-engineering	3	3
37. Labor safety	3	4
38. Decision making theory		
39. Computer Networks	3	4
40. Control theory	4,5	4
41. Methods and artificial intelligence systems	4,5	4
	3	4
42. Second foreign language	7,5	4
43. Accounting		
44.1. Protection of Computer Systems and Networks	3	4
44.2. Information Security	4,5	4
45. Expert Systems in international trade		
	4,5	4
46. Intellectual property	4,5	4
47.1. Psychology of Management		
47.2. Psychology of labor and engineering psychology	3	4
	3	4
	3	4
Practical Training, including:	9	
Practical Training	3	3
Practical Training (pre-diploma)	6	4
Form of attestation of those who acquire higher education	Defense of final qualifying work	
Compulsory subjects percentage	64 %	

3	**Key learning outcomes**	
	Competency which Master must possess	
general	− knowledge of standards, methods and facilities of the informative system life cycle processes management; − knowledge of methodology and functionality of CASE- technologies; − knowledge of basic development stages of IT projects and their individual characteristics; − the ability to build and use models to describe objects and processes , to realize their qualitative	

		analysis;
		– knowledge of analysis methods of business processes in international trade and their modeling
		– the ability to apply information technology to formalize the problems of foreign trade;
		– knowledge of business foreign languages(business language qualifications).
	Professional	– the ability to design databases and knowledge of modern structural- oriented CASE tools ;
		– the ability to develop and apply knowledge display models, inference strategies , technologies and construction tools of information systems;
		– knowledge of modern technologies and tools of data development , the ability to apply them in all stages of the life cycle;
		– knowledge of databases modern theories and methods and technologies of their development , the ability to design logical and physical models of databases and query them;
		– to determine design objectives, criteriaefficiency , restriction on the use of information systems.