

Code	Subjects	Distribution for terms (semesters)				ECTS Credits	Number of hours				
		Exams	Final tests	Course projects	Coursework		Total	Lectures/practical lessons			Self-study
								Lectures	Practical	Laboratory	
1	2	3	4	5	6	7	8	9	10	11	12
I.4. Humanities training (optional courses)											
1/IV	History Subjects		2			2	60	18	18		24
2/IV	Ukrainian Language Subjects		1			2	60	18	18		24
3/IV	Philosophy Subjects		4			2	60	18	18		24
4/IV	Psychology Subjects		4			2	60	18	18		24
5/IV	Subjects on Law		6			2	60	18	18		24
6/IV	Subjects on Humanities and Social Sciences N 1		5			2	60	18	18		24
7/IV	Subjects on Humanities and Social Sciences N 2		7			2	60	18	18		24
8/IV	Foreign Language		2, 4d			6	180		144		36
9/IV	Foreign Language for Professional Purposes		6, 7d			4	120		90		30
total number of part I.4			11			24	720	126	360		234
TOTAL IN GENERAL TRAINING											
II. VOCATIONAL TRAINING											
II.1. Vocational and practical training (major courses)											
1/c	Mathematical Logics and Algorithms Theory		2d, 3d			6	180	54	36		90
2/c	Computer Systems Architecture		3			3	90	36	18		36
3/c	Operating Systems		4			3.5	105	36		18	51
4/c	Mathematical Statistics		4			3.5	105	36	18		51
5/c	Mathematical Physics Equations	5				5	150	54	18		78
6/c	Object-Oriented Programming		3d		3	6	180	54		36	90
7/c	Theory of Information and Coding		4			3.5	105	36	18		51
8/c	Random Processes Theory	6				4	120	36	18		66
9/c	Synergetic Methods of Analysis		6			3	90	36	18		36
10/c	Computer Networks		6			3	90	36		18	36
11/c	Time Series Analysis	7				3.5	105	36	18		51
12/c	Stationary Random Processes		7			3	90	36	18		36
13/c	Chaos Theory in Dynamic Systems		7			3	90	36	18		36
14/c	Software Development and Testing		5d			3	90	36		18	36
15/c	Artificial Intelligence Methods	7				4	120	36	18		66
16/c	Advanced Systems Modeling and Simulation	8				3.5	105	36		9	60
17/c	System Analysis of Stochastic Distributed Processes		8d			3	90	36	18		36
18/c	Social and Ethic Aspects for Information Technologies		1			3	90	36	18		36
total number of part II.1		5	14		1	66.5	1995	702	252	99	942
II.2. Vocational and practical training (optional courses)											
1/cb	Harmonic Analysis and Operational Calculus	4				6	180	54	36		90
2/cb	Stability Theory and Calculus of Variations	4				4	120	36	18		66
3/cb	Fundamentals of Financial Mathematics		5			3.5	105	36	18		51
4/cb	Conflict-Controlled Systems		6d			3.5	105	36	18		51
5/cb	Game Theory and Operations Research		7			3	90	36	18		36
6/cb	Text Mining		8			2.5	75	27	18		30
7/cb	Pre-Diploma Practice		8d			7.5	225				225
8/cb	Diploma Project					6	180				180
total number of part II.2		2	4			36	1080	225	126		729
TOTAL IN VOCATIONAL TRAINING		7	18		1	102.5	3075	927	378	99	1671
TOTAL		24	42		4	240.0	7200	2106	1314	315	3465

Approved by Faculty Academic Council, Meeting protocol № ____ from April 25, 2017

Head of the Department _____ O.L.Tymoschuk
 Dean of the Faculty (Director of the Institute) _____ V.D.Romanenko