



CURRICULUM

(Enrolment 2017)

APPROVED

by Rector of Igor Sikorsky Kyiv Polytechnic Institute

Level Master

Form of study full-time
(full-time, part-time)

Michael Zgurovsky

Speciality 124 System Analysis

Faculty (Institute) Institute for Applied System Analysis

2017

Specialization System Analysis of Financial Market

Qualification Systems Analyst

Profile program Educational and Professional

Study duration 1 year 4 months

Graduation Department Mathematical Methods for System Analysis

Base level Bachelor degree

I. Schedule of educational process

YEAR	September				October				November				December				January				February				March				April				May				June				July				August							
	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	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
I																																																				
II	P	P	P	P	P	P	P	P	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R				

Symbols: Learning period Examination Practice Research Assessment Holiday

II. Summary table of time budget (Weeks)

YEAR	Learning period	Examination	Practice	Assessment	Research	Holiday	Total
I	36	4				12	52
II							

III. Practice

Type of practice	YEAR	Weeks
Pre-Diploma Practise	II	8

IV. Graduates assessment

Subjects	Form of graduates assessment (exam, graduation project)	YEAR
	Master's Thesis Implementation	II

V. Plan of Educational process

Code	Subjects	Distribution of 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. GENERAL TRAINING											
I.1. Basic training (major courses)											
1/I	Patenting and Intellectual Property		1			3	90	36	18		36
2/I	Decision-Making Support Systems and Methods	1				4	120	36		18	66
3/I	Modern Programming Languages	2				4.5	135	36		18	81
total number of part I.1		2	1			11.5	345	108	18	36	183
I.2. Basic training (optional courses)											
1/II	Subjects on Sustainable Development Problems		1			2	60	18	18		24
2/II	Pedagogy Subjects		2			2	60	30	6		24
3/II	Subjects on Startup Projects Development		2			3	90	18	36		36
4/II	Workshop on Scientific Communication in Foreign Language		2			3	90		73		18
total number of part I.2			4			10	300	66	132		102
I.3. Science Research (optional courses)											
1/III	Fundamentals of Scientific Research		1			2	60	9	18		33
2/III	Scientific Work on the Topic of Master's Thesis		1			2	60		18		42
3/III	Pre-Diploma Practise		3			14	420				420
4/III	Master's Thesis Implementation					16	480				480
total number of part I.3			2			34	1020	9	36		975
TOTAL IN GENERAL TRAINING		2	7			55.5	1665	183	186	36	1260
II. VOCATIONAL TRAINING											
II.1. Vocational and practical training (major courses)											
1/c	Technical Analysis of Financial Market		1			2	60	18	18		24
2/c	Risk Management on Financial Markets		2d			4	120	36	18		66
3/c	Stochastic Financial Mathematics		2			3.5	105	36	18		51
total number of part II.1			3			9.5	285	90	54		141
II.2. Vocational and practical training (optional courses)											
1/cb	Fundamental Analysis of Financial Market	1				4	120	36	18		66
2/cb	Financial Accounting		1d			3	90	36	18		36
3/cb	Corporate Finance	2				4.5	135	36	18		81
4/cb	Fundamentals of Computational Intelligence	1			1	4.5	135	36	18		81
5/cb	Financial Market Instruments		2			2.5	75	18	18		39
6/cb	Fund Markets in Economics and Business		1			2	60	18	18		24
7/cb	Programmed Robots and Fund Markets Agents	2				4.5	135	18	36		81
total number of part II.2		4	3		1	25	750	198	144		408
TOTAL IN VOCATIONAL TRAINING		4	6		1	34.5	1035	288	198		549
TOTAL		6	13		1	90	2700	471	384	36	1809

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