



MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute"

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 122 Computer Science

Faculty (Institute)

Institute of Applied System Analysis

2017

Specialization Data Mining in Project Management

Qualification

Computer 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 (yellow), Examination (E), Practice (P), Research (R), Assessment (A), Holiday (H)

II. Summary table of time budget (Weeks)

YEAR	Learning period	Examination	Practice	Assessment	Research	Holiday	Total
I	36	4	8	2	8	12	52
II							18

III. Practice

Type of practice	YEAR	Weeks
Pre-diploma Practice	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 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. GENERAL TRAINING											
I.1. Basic training (major courses)											
1/I	Patenting and Intellectual Property		1			3	90	36	18		36
2/I	Methods and Technologies of Computational Intelligence	1			1	5.5	165	54		18	93
3/I	Big Data Processing and Analysis	2				4.5	135	54		18	63
total number of part I.1		2	1		1	13	390	144	18	36	192
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		72		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 Practice		3			14	420				420
4/III	Master's Thesis Implementation					16	480				480
total number of part I.3			1			34	1020	27	18		975
TOTAL IN GENERAL TRAINING		2	6		1	57	1710	237	168	36	1269
II. VOCATIONAL TRAINING											
II.1. Vocational and practical training (major courses)											
1/c	High-Load Distributed Computer Systems	1				4	120	36		18	65
2/c	Project Activities Planning	1				3.5	105	36	18		51
3/c	Methodology Methods and Techniques of Project		1			2	60	18	18		24
4/c	Project Decision-Making		1d			2.5	75	18	18		39
5/c	Modern Programming Technologies	2			2	5	150	36		18	96
total number of part II.1		3	2		1	17	510	144	54	36	276
II.2. Vocational and practical training (optional courses)											
1/cb	Marketing		2			2	60	28		8	24
2/cb	Strategic Management in Project Management		2			2.5	75	18	18		39
3/cb	Data Mining Systems	2				4	120	36	18		66
4/cb	Project Quality Management, Standardization of Project Documents		2			2.5	75	18	18		39
5/cb	Project Processes Modeling		1,2d			5	150	36	36		78
total number of part II.2		1	6			16	480	136	90	8	246
TOTAL IN VOCATIONAL TRAINING		4	8		1	33	990	280	144	44	522
TOTAL		6	14		2	90	2700	517	312	80	1791

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