



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 Scientific

Study duration 1 year 9 months

Graduation Department Mathematical Methods for System Analysis

Base level Bachelor degree

I. Schedule of educational process

YEAR	September				October				November				December				January				January				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																			E	E	H	H																														
II																			E	E	H	H	P	P	P	P	P	P	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	A							

Symbols: Learning period E Examination P Practice R Research A Assessment H Holiday

II. Summary table of time budget (Weeks)

YEAR	Learning period	Examination	Practice	Assessment	Research	Holiday	Total
I	36	4				12	52
II	18	2	5	2	10	2	39

III. Practice

Type of practice	YEAR	Weeks
Pre-diploma Practice	II	5

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			4.5	135		108		27
total number of part I.2			5			11.5	345	66	168		111
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			5.5	165		18		147
3/III	Pre-diploma Practice		4			9	270				270
4/III	Master's Thesis Implementation					21	630				630
total number of part I.3			2			37.5	1125	9	36		1080
TOTAL IN GENERAL TRAINING		2	8		1	62	1860	219	222	36	1383
II. VOCATIONAL TRAINING											
II.1. Vocational and practical training (major courses)											
1/c	Modern IT in Project Management		3			4.5	135	36	18		81
2/c	SAP System Software and Hardware			3		4	120	36	18		66
3/c	High-Load Distributed Computer Systems	1				4	120	36		18	66
4/c	Project Activities Planning		1			3.5	105	36	18		51
5/c	Methodology, Methods and Techniques of Project Management			1		2	60	18	18		24
6/c	Project Decision-Making			1d		2.5	75	18	18		39
7/c	Modern Programming Technologies	2			2	5	150	36		18	96
total number of part II.1		4	3		1	25.5	765	216	90	36	423
II.2. Vocational and practical training (optional courses)											
1/cb	Marketing			2		2	60	28		8	24
2/cb	Data Mining Technology		3		3	5	150	36	18		96
3/cb	Risic-Management in Project Management			3		4	120	36	18		66
4/cb	Strategic Management in Project Management			2		2	60	18	18		24
5/cb	Data Mining Systems	2	3d			6.5	195	54	36		105
6/cb	Project Quality Management, Standartization of Project Documents			2		2	60	18	18		24
7/cb	Web-Mining Methods		3			3.5	105	18	18		69
8/cb	Applied Methods of Forecasting			3		3	90	18	18		54
9/cb	Project Processes Modeling			1,2d		4.5	135	36	36		63
total number of part II.2		3	8		1	32.5	975	262	180	8	525
TOTAL IN VOCATIONAL TRAINING		7	11		2	58	1740	478	270	44	948
TOTAL		9	19		3	120	3600	697	492	80	2331

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