National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute"

EDUCATIONAL CURRICULUM

(educational part of study program)
for 2020 / 2021 study year

(Enrolment 2019)

APPROVED

by Academic Council of Igor Sikorsky KPI

30 June 2020 y.
meeting protocol № 5

Head of Academic Coucil

_____ **Mykhaylo ILCHENKO**

« 1 » July 2020 y.

Level	**PhD**
in study field	12 Information Technology
Study form	**part-time**
ECTS Credits	40
Specialty	**121 Software Engineering**
Base degree	master
Educational and Scientific program	**Software Engineering**

Week study hours by semesters — 2 year — ІТ-з91ф (0+2), ІП-з91ф (0+1), ТВ-з91ф (0+1)

Educational components (academic disciplines, course projects (works), practices, qualification work)	Department	Credits	Hours	Total	Lectures in Curriculum	Lectures with individual	Practice in Curriculum	Practice with individual teaching	Laboratory in Curriculum	Laboratory with individual teaching	Individual teaching	Self-study	Exams	Final tests	Module tests	Course projects	Course works	Calculation tests	Self-test	Abstracts	1 sem Total	1 sem Lectures	1 sem Practice	1 sem Laboratory	2 sem Total	2 sem Lectures	2 sem Practice	2 sem Laboratory
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
Automated DesignTechnologies and programs verification	Technical Systems Automation and Control	4	120	18	12				6			102	3		3						18	12		6	0			
Model-Driven Design of Software Systems	Design Automation for Energy Processes and Systems	4	120	18	12				6			102	3		3						18	12		6	0			
Methods of Software Reengineering	Computer Systems Software	4	120	18	12				6			102	4		4						0				18	12		6
		12	360	54	36	0	0	0	18	0	0	306	3		3						36	24	0	12	18	12	0	6
Organization of the Scientific Research 1. Research methodology	Computer Engineering	1.5	45	18	12		6					27		3					3		18	12	6		0			
Organization of the Scientific Research 2. Organization of Research	Computer Engineering	2.5	75	18	12		6					57	4		4						0				18	12	6	

		Hours / ECTS columns																									
Pedagogic Internship		Design Automation for Energy Processes and Systems	4	120	0								120	3							x				0			
			8	240	36	24	0	12	0	0	0	0	204	1	2	1				1	18	12	6	0	18	12	6	0
			20	600	90	60	0	12	0	18	0	0	510	4	2	4	0	0	0	0	1	54	36	6	12	36	24	6	6
Educational component 2 F-Catalog			8	240	24	12				12			216	4	4										24	12		12
Decentralized Applications Development	0+2	Design Automation for Energy Processes and Systems	8	240	24	12	6			12	6	12	216	4	4										24	12		12
Mathematical methods of information control systems	0+1	Computer-Aided Management and Data Processing Systems	8	240	24	12	6			12	6	12	216	4	4										24	12		12
Heterogeneous distributed databases	0+1	Technical Cybernetics	8	240	240	12	6			12	6	12	216	4	4										4	12		12
			8	240	24	12	6	0	0	12	6	12	216	1	1						0	0	0	0	24	12	0	12
			28	840	114	72	6	12	0	30	6	12	726	4	3	5	0	0	0	0	1	54	36	6	12	60	36	6	18

Amount			
Exams	4	2	2
Final tests	3	2	1
Module tests	5	2	3
Course projects	0		
Course works	0		
Calculation tests	0		
Self-test	0		
Abstracts	1	1	

Internships

Type of Internship	Dates	Duration in weeks	Semester
pedagogic	30.11 - 27.12.2020	4	3

HOURS DISTRIBUTION IN PREPARING AND DEFENCE OF PHD THESIS

Type of Work	Rate for 1 PhD student	Department	Number of PhD students		Total	
			B	C	B	C
Supervision	25 hrs. per sem.	Technical Systems Automation and Control		2	0	100
Supervision	25 hrs. per sem.	Computer-Aided Management and Data Processing Systems		1	0	50
Supervision	25 hrs. per sem.	Design Automation for Energy Processes and Systems		1	0	50

Head of the Scientific and Methodical Board of Speciality   / Ivan DYCHKA /

Educational and Scientific program guarantor   / /