CURRICULUM

(Enrolment 2020)

APPROVED

by Academic Council
Igor Sikorsky Kyiv Polytechnic Institute
(мeeting protocol № __ from _____ 2020)

Head of Academic Council

_____ Mykhaylo ILCHENKO

Level	**PhD**
Speciality	**121 Software Engineering**
Educational and Scientific program	
	Software Engineering

Graduation Departments Computer Systems Software, Computer Engineering, Technical Cybernetics, Technical Systems Automation and Control, Computer-Aided Management and Data Processing Systems, Department of design automation for energy processes

Faculties Faculty of Applied Mathematics, Faculty of Informatics and Computer Science, Faculty of Heat and Power Engineering

Form of study	**full-time**
	(full-time, part-time)
Qualification	**PhD in Software Engineering**
Study duration	**4 years**
Base level	Master degree
Educational component	**30 ECTS Credits**

Schedule of study

YEAR	October					November				December					January				February				March				April					May					June			July				August				September			
	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	E	R	R	RT	RT	RT																E	E	H	H	H	H	H	H	H	H	H	H	R	RT	RT	RT
II												I	I	E	E	E	R	R	RT	RT	RT																E	E	H	H	H	H	H	H	H	H	H	H	R	RT	RT	RT
III	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	RT	RT	RT	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	H	H	H	H	H	H	H	H	H	H	R	RT	RT	RT
IV	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	RT	RT	RT	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	H	H	H	H	H	H	H	H	H	H	R	RT	RT	RT

Symbols: ▢ Learning period　E Examination　I Internship　R Research　RT Report　A Assessment　H Holiday

I. Educational component

Summary table of time budget (Weeks)

YEAR	Learning period	Examination	Internship	Holiday	Total
I	31	5		12	48
II	29	5	2	12	48

Internship

Type of Internship	Semester	Weeks
Pedagogic	3	2

Plan of Educational process

Code	Educational components	Distribution for terms (semesters)				ECTS Credits	Number of hours				
		Exams	Final tests	Individual task	Module test		Total	Lectures/practical lessons			Self-study
								Lectures	Practical	Laboratory	
1	2	3	4	5	6	7	8	9	10	11	12
1. Normative components											
1.1. General training cycle											
ЗО1	Technologies of Automated Design and Software Verification	1				4	120	13		26	81
ЗО2	Model-Driven Design of Software Systems	3				4	120	13		26	81
ЗО3	Methods of Software Reengineering	4				4	120	18		18	84
ЗО4	Foreign Language for Research	2	1			6	180		75		105
1.2. Vocational training cycle											

ПО1	**Methodology and Organization of the Scientific Research**		2			2	60	18	6		36
ПО2	**Pedagogic Internship**		3			2	60				60
	TOTAL of NORMATIVE educational components	**4**	**3**			**22**	**660**	**62**	**81**	**70**	**447**
	2. Elective components										
B1	**Elective Component from University Catalog**	2		2	2	4	120	36	36		48
B2	**Elective Component from Faculty Catalog**		4			4	120	18		18	84
	TOTAL of ELECTIVE educational components	**1**	**1**	**1**	**1**	**8**	**240**	**54**	**36**	**18**	**132**
	TOTAL	**5**	**4**	**1**	**1**	**30**	**900**	**116**	**117**	**88**	**579**

II. Scientific component

YEAR	The content of the graduate student's scientific work	Forms of control (Reporting)
1st year	The choice of the PhD student's dissertation topic; formation of the PhD student's individual work plan; the research fulfilment under the guidance of the scientific supervisor; preparation and submission of at least 1 publication on the dissertation topic in accordance with current requirements.	Approval by the academic council of the faculty by 30.11.2020, reporting on the implementation of the individual plan of the PhD student twice a year.
2nd year	The research fulfilment under the guidance of the scientific supervisor; preparation and submission of at least 1 publication on the dissertation topic in accordance with current requirements.	Reporting on the implementation of the individual plan of the PhD student twice a year.
3rd year	The research fulfilment under the guidance of the scientific supervisor; preparation and submission of at least 1 publication on the dissertation topic in accordance with current requirements.	Reporting on the implementation of the individual plan of the PhD student twice a year.
4th year	Completion of the dissertation, summarizing the results of publications (at least three) on the topic of the dissertation in accordance with current requirements.	Reporting on the implementation of the individual plan of the PhD student twice a year. Providing an opinion on the scientific novelty, theoretical and practical significance of the dissertation results. PhD thesis defense.

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

Dean of the Faculty of Applied Mathematics   / **Ivan DYCHKA** /

Head of the Department of Computer Systems Software   / **Viktor LEGEZA** /   **Dean of the Faculty of Informatics and Computer Science**   / **Sergii TELENYK**/

Head of the Department of Computer Engineering   / **Sergii STIRENKO** /   **Dean of the Faculty of Heat and Power Engineering**   / **Evgen PYSMENNY**/

Head of the Department of Technical Cybernetics   / **Igor PARHOMEY** /