



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

CURRICULUM

(Enrolment 2020)

APPROVED

by Academic Council

Igor Sikorsky Kyiv Polytechnic Institute
(meeting protocol № ___ from _____ 2020)

Head of Academic Council

_____ Mykhaylo ILCHENKO

Level PhD

Speciality 173 Avionics

Educational and Scientific program

Control systems of flight vehicles and complexes engineering

Form of study full-time

(full-time, part-time)

Study duration 4 years

Base level Master degree

Educational component 40 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	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	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	RT	RT	RT	R	R	R	R	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	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	RT	RT	RT	R	R	R	R	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	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	28	5		9	42
II	26	5	2	9	42

Internship

Type of Internship	YEAR	Weeks
Pedagogical	2	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												
Philosophical training												
ZO1	Philosophical principles of scientific activity	2	1	2	1	6	180	31	49		100	
Language training												
ZO2	Foreign language for scientific activity	2	1	1	2	6	180		76		104	
Educational disciplines for obtaining in-depth knowledge of the specialty												
ZO3	Intelligent control systems	3		3		6	180	26	13		141	
ZO4	Navigation and robotic systems and complexes	4		4		6	180	36	18		126	
Educational disciplines for the acquisition of universal competencies of the researcher												
ZO5	Organization of scientific and innovative activities in avionics	1	2	2		4	120	31	31		58	
ZO6	Pedagogical practice		3			2	60				60	
TOTAL of NORMATIVE educational components		5	4	5	2	30	900	124	187	0	589	
2. Elective components												
V1	Educational component 1 of the F-Catalog	3			3	5	150	26	13		111	
V2	Educational component 2 of the F-Catalog	4			4	5	150	36	18		96	
TOTAL of ELECTIVE educational components		2			2	10	300	62	31	0	207	
TOTAL		7	4	5	4	40	1200	186	218	0	796	

II. Scientific component

YEAR	The content of the graduate student's scientific work	Forms of control (Reporting)
1st year	Choice and substantiation of the topic of own scientific research, determination of the content, terms of performance and volume of scientific works; selection and substantiation of the methodology of own research, review and analysis of existing views and approaches that have developed in modern science in the chosen field. Preparation and publication of at least 1 article (usually a review) in scientific professional publications (domestic or foreign) on the research topic; participation in scientific and practical conferences (seminars) with the publication of abstracts.	Approval of the individual plan of the graduate student's work at the academic council of the institute / faculty, reporting on the progress of the individual graduate student's plan twice a year.
2nd year	Conducting own research under the guidance of the supervisor, which involves solving research problems through the use of a set of theoretical and empirical methods. Preparation and publication of at least 1 article in scientific professional publications (domestic or foreign) on the research topic; participation in scientific and practical conferences (seminars) with the publication of abstracts.	Reporting on the progress of the individual graduate student's plan twice a year.
3rd year	Analysis and generalization of the obtained results of own scientific research; substantiation of scientific novelty of the obtained results, their theoretical and / or practical significance. Preparation and publication of at least 1 article in scientific professional publications on the research topic; participation in scientific and practical conferences (seminars) with the publication of abstracts.	Reporting on the progress of the individual graduate student's plan twice a year.
4th year	Registration of scientific achievements of the post-graduate student in the form of the dissertation, summing up concerning completeness of coverage of results of the dissertation in scientific articles according to the current requirements. Implementation of the obtained results and receipt of supporting documents. Submission of documents for preliminary examination of the dissertation. Preparation of a scientific report for final certification (defense of the dissertation).	Reporting on the progress of the individual graduate student's plan twice a year. Providing an conclusion on the scientific novelty, theoretical and practical significance of the dissertation results.

Head of the Scientific and Methodical Board of Speciality _____ / Olexandr ZBRUTSKY /

Head of the Department _____ / Olexandr ZBRUTSKY /