MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

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

CURRICULUM

(Enrolment 2020)

APPROVED

By Head of Academic Council
Igor Sikorsky Kyiv Polytechnic Institute

Mykhaylo ILCHENKO

2020

Level Master

Speciality 173 Avionics

Education and Scientific program

Control systems of flight vehicles and complexes engineering

Graduation Departament Control systems of flight vehicles

Form of study full-time (full-time, part-time)

Faculty (Institute) Institute of Aerospace Technologies

Qualification Master in Avionics

Study duration 1 year 9 months

Base level Bachelor degree

I. Schedule of educational process

Year	September				October					November					Decembaer				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																			E	E	H	H																			E	E	H	H	H	H	H	H	H	H	H	H
II																			E	E	H	H	P	P	P	P	P	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	Recearch	Holiday	Total
I	36	4				12	52
II	18	2	5		12	2	39

III. Practice

Type of practice	YEAR	Weeks
Research	2	5

IV. Graduates assessment

Subjects	Form of graduates assessment (exam, graduation project)	YEAR
	Defense of master's thesis	2

V. Plan of Educational process

Code	Education components	Distribution for terms (semesters)				ECTS Credits	Number of hours				
		Exams	Final tests	Individual task	Module test		Total	Lectures/practical lessons			Self-study
								Lectures	Pactical	Laboratory	
1	2	3	4	5	6	7	8	9	10	11	12
1. Compulsory education components											
1.1. General training cycle											
ЗО 1	Intellectual and Patenting Property		1		1	3	90	36	18		36
ЗО 2	Subject on Sustainable Development Problems		1		1	2	60	18	18		24
ЗО 3	Workshop on Scientific Communication in Foreign Language		2,3	1	2,3	4,5	135		108		27
ЗО 4	Management Subject		2		2	3	90	18	36		36
ЗО 5	Pedagogy Subject		3		3	2	60	18	18		24
ЗО 6	Optimization Methods of avionics systems	3		3	3	4	120	36	18		66
ЗО 7	Modeling of avionics processes and systems	3		3	3	4	120	36	18		66
	total number of part 1.1	2	6	3	8	22,5	675	162	234	0	279
1.2. Vocational training cycle											
ПО 1	Aircraft Control Systems	1			1	8,5	255	81	18	18	138
ПО 2	Course project on Aircraft Control Systems		1			1,5	45				45
ПО 3	Pattern Recognition Systems	1		1	1	6	180	36	9	36	99
ПО 4	Systems of orientation of moving objects	1		1	1	5,5	165	36	18	9	102
ПО 5	Avionics Microprocessor Systems		3		3	4	120	18		36	66
ПО 6	Course project on Avionics Microprocessor Systems		3			1,5	45				45
ПО 7	Methods and means of orientation and navigation of robotic complexes		3	3	3	2,5	75	18	9	9	39
Investigational (scientific) component											
ПО 8	Scientific Work on the Topic of Master's Thesis.		1,3	2,3	1,2	7,5	225	9	36		180
ПО 9	Research Practice		4			9	270				270
ПО 10	Master's Thesis Implementation					21	630				630
	total number of part 1.2	3	7	5	7	67	2010	198	90	108	1614
	TOTAL IN NORMATIVE education components	5	13	8	15	89,5	2685	360	324	108	1893
2. Optional education components											
2.1. Vocational traning cycle (Optional subjects from Faculty catalogue)											
ПВ 1	Educational component 1 of the F-Catalog	2		2	2	5,5	165	27		45	93
ПВ 2	Educational component 2 of the F-Catalog	2		2	2	5,5	165	45	9	18	93
ПВ 3	Educational component 3 of the F-Catalog		2	2	2	6	180	54		36	90
ПВ 4	Educational component 4 of the F-Catalog	2		2	2	6,5	195	54	18	18	105
ПВ 5	Educational component 5 of the F-Catalog	3		3	3	7	210	54		36	120
	TOTAL IN Selective educational components	4	1	4	5	30,5	915	234	27	153	501
	TOTAL	**9**	**14**	**12**	**20**	**120**	**3600**	**594**	**351**	**261**	**2394**

Approved by University Academic Council, Meeting protocol № ___ from _____, 2020

Head of the Department _____ / Olexandr ZBRUTSKY /

Director of the Institute _____ / Ivan KOROBKO /