



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 Master

Speciality Electric power engineering, electrical engineering and electromechanics

Educational and Professional program _____

Electromechanical Automation Systems, Electrical Drive and Electromobility

Graduation Department Automation of Electromechanical Systems and Electrical Drives

Form of study full-time

(full-time, part-time)

Faculty (Institute) Faculty of electric power engineering and automatics

Qualification Master in electric power engineering, electrical engineering and electromechanics

Study duration 1 year 4 months

Base level Bachelor degree

I. Schedule of educational process

YEAR	September				October				November				December				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	Learning period																																																			
II	P	P	P	P	P	P	P	P	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			8		10		18

III. Practice

Type of practice	YEAR	Weeks
Pre-diploma practice	II	8

IV. Graduates assessment

Subjects	Form of graduates assessment (exam, graduation project)	YEAR
Preparation of master's thesis and defence	Defence of master's thesis	II

V. 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 educational components											
1.1. General training cycle											
ZO1	Intellectual Property and Patenting		1		1	3	90	36	18		36
ZO2	Fundamentals of Sustainable Development of Society		1		1	2	60	18	18		24
ZO3	Practical Training in Foreign Language Professional Communication		2	1	1	3	90		72		18
ZO4	Management of Startup Projects		1		1	3	90	18	36		36
1.2. Vocational training cycle											
PO1	Numeric and Motion Control Systems	1		1	1	6,5	195	72		18	105
PO2	Control and Automation of Technical Systems	1			1	5,5	165	54		27	84
PO3	Electric Vehicles Technology		2		2	2,5	75	54			21

PO4	Advanced Digital Signal Processing	1		1	1	5	150	36		18	96
PO6	Courseproject on Electric Vehicles Technology		2			1,5	45				45
PO7	Courseproject on Control and Automation of Technical Systems		1			1,5	45				45
1.3. Research (scientific) training cycle											
PO7	Research Work on Topic of Master's Thesis		1,2	1,2	1,2	4	120	9	36		75
PO8	Pre-diploma Practice		3			14	420				420
PO9	Preparation of Master's Thesis and Defence					16	480				480
TOTAL of NORMATIVE educational components		3	10	5	10	67,5	2025	297	180	63	1485
2. ELECTIVE educational components											
2.1. Vocational training cycle (Optional subjects from Faculty catalogue)											
PV1	Optional subject #1 from F-Catalogue	2			2	4	120	54			66
PV2	Optional subject #2 from F-Catalogue	2		2	2	5	150	54		18	78
PV3	Optional subject #3 from F-Catalogue	2		2	2	4,5	135	36		27	72
PV4	Optional subject #4 from F-Catalogue		2	2	2	5	150	54	18	18	60
PV5	Optional subject #5 from F-Catalogue		2	2	2	4	120	9	36		75
TOTAL of ELECTIVE educational components		3	2	4	5	22,5	675	207	54	63	351
TOTAL		6	12	9	15	90	2700	504	234	126	1836

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

Head of the Department _____ / Serhii Peresada/

Dean of the Faculty _____ / Oleksandr Yandulsky /