

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

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

CURRICULUM

by Rector of Igor Sikorsky Kyiv Polytechnic Institute	Level
Michael Zgurovsky	Speciality

2019

(Enrollment 2019) Master

Form	of	study

full-time

(full-time, part-time)

Faculty of electric power

Faculty (Institute)

engineering and automatics

Qualification

Study duration

Master in electric power engineering, electrical engineering and electromechanics

Educational and Electromechanical Automation Systems, scientific program **Electrical Drive and Electromobility**

Electric power engineering, electrical

engineering and electromechanics

Department of Automation of Graduation Department Electromechanical Systems and

Base level

Bachelor degree

1 year 9 months

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4		Sept	embe	er		Oct	ober				No	vem	ber			Dec	embe	er			Janua	iry			Jan	uary	,		Ma	ırch			Ap	ril			М	ay			Jι	ıne				July				Augu	ust	
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Electrical Drives

	II. Sun	nmary	table o	f time	budge	t (Wee	ks)
YEAR	Learning period	Examinatio n	Practice	Assessmen t	Research	Holiday	Total
-	36	4				12	52
II	18	2	5		12	2	39

III. Pı	ractice	
Type of practice	YEAR	Weeks
Pre-diploma Practice	II	5

IV. Graduates assessment									
Subjects	Form of graduates assessment (exam, graduation project)	YEAR							
Master's Thesis Implementation	Defence of Master's Thesis	ш							

	V. Plan of	Educa	tional	proces	s								
		Distribution for terms (semesters)						Number of hours					
				v		its		Lect	ures/pra				
Code	Subjects	Exams	Final tests	Course projects	Coursework	ECTS Credits	Total	Lectures	Practical	Laboratory	Self-study		
1	2	3	4	5	6	7	8	9	10	11	12		
	I. GENERAL TRAINING I.1. Basic training (major courses)												
ZO1	Patenting and Intellectual Property	9	2			3	90	36	18		36		
			2										
ZO2	Process Control	3				6	180	54	36		90		
ZO3	Robust and Adaptive Control Systems	3			3	6	180	54	18		108		
	total number of part I.1	2	1	20100	1	15	450	144	72		234		
ZV1	I.2. Basic train	mig (optio	iai co	urses) 2	60	18	18		24		
ZV1	Pedagogics		3			2	60	18	12		30		
ZV3	Innovation management		1			3	90	18	36		36		
	Practical Training in Foreign Language Professional		-										
ZV4	Communication		2,3			4,5	135		108		27		
	total number of part I.3		5			11,5	345	54	174		117		
	I.3. Science Res	earcr	i (opt	ionai (cours	es)							
	Scientific Work on Master Thesis												
ZO1	I. Basics of the Scientific Research		1			2	60	9	18		33		
ZO2	II. Research Work on Master Thesis		2,3			5,5	165		18		147		
ZO3	Research Practice		4			9	270				270		
ZO4	Master Thesis					21	630				630		
	total number of part I.3		4			37,5	1125	9	36		1080		
	TOTAL IN GENERAL TRAINING		10		1	64	1920	207	282		1431		
	II. VOCA												
D) (4	II.1. Vocational and pr	actica		ing (n	najor				ı	10	T 70		
PV1 PV2	Electromechanical Systems in Green Technologies	1	1			5	150 195	54 72		18 18	78 105		
	Numeric and Motion Control Systems Electrodynamics Methods in Electrical Engineering and	'				6,5							
PV3	Electrodynamics Methods in Electrical Engineering and Electromechanics		3			5	150	36	18	18	78		
PV4	Robust and Adaptive Control in Electromechanical Systems	2				4	120	54			66		
PV5	Electromechanical systems of Electric Vehicles	2		2		4,5	135	36			99		
PV6	Advanced Digital Signal Processing	1				5	150	54		18	78		
PV7	Integrated Automation Systems	2				4,5	135	36		27	72		
PV8	Interdisciplinary research of Electromechanical Systems		2			3,5	105	18	27		60		
PV9	Scientific Interdisciplinary research of Electromechanical Systems	3				6	180	18	36		126		
PV10	Optimal and Intelligent Control Systems		2			5	150	54	18	18	60		
PV11	Control and Automation of Technical Systems	1		1		7	210	54		18	138		
	total number of part II.1	7	4	2		56	1680	486	99	135	960		
	TOTAL IN VOCATIONAL TRAINING	7	4	2		56	1680	486	99	135	960		
	TOTAL	9	14	2	1	120	3600	693	381	135	2391		

Approved by Faculty Academic Council, Meeting protocol №_9 from April 25, 2019

Head of the Department	/
Dean of the Faculty	/ Oleksandr Yandulsky /