



# CURRICULUM

(Enrolment 2017)

APPROVED

by Rector of Igor Sikorsky Kyiv Polytechnic Institute

Level Master

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

Mykhailo Zgurovsky

Speciality 141 Electricity, electrical engineering and electromechanics

Faculty (Institute) FEA

2017

Specialization Electric machines and apparatus

Qualification Electrical engineer

For the educational and professional program of master's training Electric machines and apparatus

Study duration 1 year 4 months

Graduation Department Electromechanics

Base level Bachelor degree

## I. Schedule of educational process

YEAR	September				October				November				December				January				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																																																				
II	P	P	P	P	P	P	P	P	R	R	R	R	R	R	R	R	R	R	R	R	E	E	H	H																												

Symbols:   Learning period   Examination   Practice   Research   Assessment   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	2	8

## IV. Graduates assessment

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

## V. Plan of Educational process

Code	Subjects	Distribution for terms (semesters)				ECTS Credits	Number of hours					
		Exams	Final tests	Course projects	Coursework		Total	Lectures/practical lessons			Self-study	
								Lectures	Practical	Laboratory		
1	2	3	4	5	6	7	8	9	10	11	12	
<b>I. GENERAL TRAINING</b>												
<b>I.1. Basic training (major courses)</b>												
1/I	Patenting and Copyright Law		2			3	90	36	18		36	
<b>total number of part I.1</b>			1			3	90	36	18	0	36	
<b>I.2. Basic training (optional courses)</b>												
1/II	Fundamentals of Sustainable Development of Society		2			2	60	18	18		24	
2/II	Innovation Management		1			3	90	18	36		36	
3/II	Workshop on foreign language professional communication I. English for Scientists - I, II. English for Scientists - II		2			3	90		72		18	
<b>total number of part I.2</b>			3			8	240	36	126		78	
<b>I.3. Science Research (optional courses)</b>												
<b>Наукова робота за темою магістерської дисертації</b>												
1/III	1. Fundamentals of Scientific Research				1Д	2	60	9	18		33	
2/III	2. Scientific Research				2Д	2	60		18		42	
3/III	Pre-diploma Practice				3Д	14	420				420	
4/III	Master Thesis					16	480				480	
<b>total number of part I.3</b>			3			34	1020	9	36		975	
<b>TOTAL IN GENERAL TRAINING</b>		0	7	0			45,0	1350	81	180	0	1089

II. VOCATIONAL TRAINING											
II.1. Vocational and practical training (major courses)											
1/c	Electrical Machines Reliability	1				7	210	63		36	111
2/c	Powerful electromechanical complexes and energy saving during their operation -1 Traction Electrical Machines.-2 Industrial Electromechanical Complexes	1,2				11,5	345	144	36		165
3/c	Electrical Machinery of Automation Systems	2			2	6,5	195	54		36	105
4/c	Special Electrical Machines	1			1	4	120	36	18		66
5/c	Tests, Defect Diagnosis and Service Maintenance of Electrical Machines		1			3,5	105	45		9	51
6/c	Fundamentals of Electrical Machines Automated Design		1			2,5	75	27		9	39
7/c	Fundamentals of Electromechanotronics	2				4	120	36		18	66
8/c	Electric Drive Control Systems		1			3	90	27		18	45
9/c	Low-Voltage Electrical Switching Devices		2			3	90	18		18	54
<b>total number of part II.1</b>		<b>6</b>	<b>4</b>		<b>2</b>	<b>45</b>	<b>1350</b>	<b>450</b>	<b>54</b>	<b>144</b>	<b>702</b>
II.2. Vocational and practical training (optional courses)											
<b>total number of part II.2</b>											
<b>TOTAL IN VOCATIONAL TRAINING</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>450</b>	<b>54</b>	<b>144</b>	<b>702</b>
<b>TOTAL</b>		<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12</b>	<b>345</b>	<b>531</b>	<b>234</b>	<b>144</b>	<b>1791</b>

Approved by Faculty Academic Council, Meeting protocol №\_8\_ from Marth 27, 2017

Head of the Department \_\_\_\_\_ / Shynkarenko VF /

Dean of the Faculty (Director of the Institute) \_\_\_\_\_ / Yandulsky O.S. /