

by Academic Council

Igor Sikorsky Kyiv Polytechnic Institute

Meeting protocol No 5 from 30.06 2020)

Head of Academic Council

Mykhaylo ILCHENKO

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

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

CURRICULUM

(Enrolment 2020 of citizen of the United States of America)

Level	PhD
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Speciality 141 - Electric power engineering, electrical engineering and electromechanics

Educational and Scientific program Electric power engineering.

electrical engineering and electromechanics

Form of study full-time

(full-time, part-time)

Qualification

Doctor of philosophy in electric power engineering, electrical engineering and electromechanics

Study duration 4 years

Base level Master degree

Educational component	40 ECTS Credits
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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	R	H	H	H	H	H	H	H	H	H	H	H	R	RT	RT	R		
II												I	I	E	E	E	R	R	RT	RT	RT																E	E	R	H	H	H	H	H	H	H	H	H	H	H	R	RT	RT	R		
III	R	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	R	R	R	R	R	R	R	R	R	R	R	RT	RT	R	
IV	R	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	R	R	R	R	R	R	R	R	R	R	R	RT	RT	R	
Symbols:	Learning period					E Examination					I Internship					R Research					RT Report					A Assessment					H Holiday																									

1. Educational component

Summary table of time budget (Weeks)

YEAR	Learning period	Examination	Interrehip	Holiday	Total
I	28	5		9	42
II	26	5	2	9	42

Internship

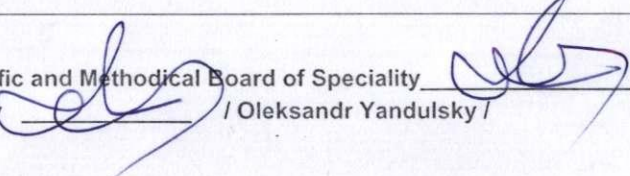
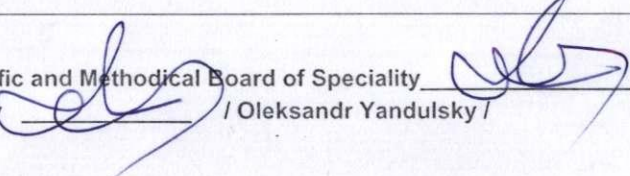
Type of Internship	YEAR	Weeks
Pedagogical internship	2	2

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											
1.1. Humanities training cycle											
ZO1	Philosophical Principles of Scientific Activity	2	1	2	1	6	180	31	49		100
1.2. Language training cycle											
ZO2	Foreign Language for Scientific Activity	2	1	1	2	6	180		76		104
1.3. General training cycle											
ZO3	Methods of Research, Formation and Control of Intelligent Energy Systems and Complexes	4		4	4	3	90	36	18		36

ZO4	Fundamentals of Theory of Electromagnetic Field and Processes		3	3	3	3	90	26	13		51
ZO5	Non-conventional and Renewable Energy Sources in Electric Power Systems and Electrotechnical Complexes		4	4	4	3	90	36	18		36
ZO6	Monitoring, Control and Protection of Electric Power Systems and Electrotechnical Complexes	3		3	3	3	90	26	13		51
1.4. Vocational training cycle											
PO1	Advanced Technologies in Electric Drive and Electromechanical Systems	3	2	2,3	2,3	4	120	31	9		80
PO2	Pedagogical Internship		3			2	60				60
TOTAL of NORMATIVE educational components		5	6	8	8	30	900	186	196		518
2. Elective components											
V1	Optional subject #1 from F-Catalogue		3	3	3	3	90	27			63
V2	Optional subject #2 from F-Catalogue		4	4	4	3	90	18	9		63
V3	Optional subject #3 from F-Catalogue	4		4	4	4	120	18	9		93
TOTAL of ELECTIVE educational components		1	2	3	3	10	300	63	18		219
TOTAL		6	8	11	11	40	1200	249	214		737

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 conducting 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 postgraduate student's work at the academic council of the institute / faculty, reporting on the progress of the individual postgraduate 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 postgraduate 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 the 1st 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 postgraduate 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 the final certification (defense of the dissertation).	Reporting on the progress of the individual postgraduate student's plan twice a year. Providing an opinion on the scientific novelty, theoretical and practical significance of the dissertation results.

Head of the Scientific and Methodical Board of Speciality  / Oleksandr Yandulsky /
Dean of the Faculty  / Oleksandr Yandulsky /