

## MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

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

## **CURRICULUM**

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	Plan of Ed	ducatio	nal pro	cess							
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Φ			S.	task	test	Credits		Lect	ures/pra lessons	у	
Code	Educational components	Exams	Final tests	Individual t	Module te	ECTS CI	Total	Lectures	Practical	Laboratory	Self-study
1	2	3	4	5	6	7	8	9	10	11	12
	1. Norma	tive co	mpor	nents							
	1.1. Huma	nities tr	aining	cycle							
ZO1	Philosophical Principles of Scientific Activity	2	1	2	1	4	120	19	30		71
	1.2. Language training cycle										
ZO2	Foreign Language for Scientific Activity	2	1	1	2	6	180		45		135
	1.3. General training cycle										
ZO3	Methods of Research, Formation and Control of Intelligent Energy Systems and Complexes	4		4	4	3	90	4	2		84

ZO4	Fundamentals of Theory of Electromagnetic Field and Processes		3	3	3	3	90	13	13	64
ZO5	Non-conventional and Renewable Energy Sources in Electric Power Systems and Electrotechnical Comlexes		4	4	4	3	90	4	2	84
ZO6	Monitoring, Control and Protection of Electric Power Systems and Electrotechnical Complexes	3		3	3	3	90	13	13	64
	1.4. Vocati	onal tr	aining	cycle		-				
PO1	Advanced Technologies in Electric Drive and Electromechanical Systems	3	2	2,3	2,3	4	120	19	2	99
PO2	Pedagogical Internship		3			4	120			120
	TOTAL of NORMATIVE educational components	5	6	8	8	30	900	72	107	721
	2. Electi	ve con	nponei	nts						
V1	Optional subject #1 from F-Catalogue		3	3	3	3	90	7	6	77
V2	Optional subject #2 from F-Catalogue		4	4	4	3	90	4	2	84
V3	Optional subject #3 from F-Catalogue	4		4	4	4	120	4	2	114
	TOTAL of ELECTIVE educational components	1	2	3	3	10	300	15	10	275
	TOTAL	6	8	11	11	40	1200	87	117	996

	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 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 Metho	odical Board of Speciality	/ Oleksandr Yandulsky /	
Dean of the Faculty	/ Oleksandr Yandulsky /		