



MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute"
WORK CURRICULUM

on 2020/2021 academic year

(Enrolment 2019 of citizen of the Republic of India)

APPROVED BY
Vice Rector of Education of
Igor Sikorsky Kyiv Polytechnic Institute

_____ Anatoliy MELNYCHENKO
« ____ » _____ 20 ____ .

Level Doctor of Philosophy (PhD)
Speciality 141 - Electric power engineering, electrical engineering and electromechanics
Educational and scientific program Electric power engineering, electrical engineering and electromechanics
Faculty (Institute) Faculty of electric power engineering and automatics

Form of study part-time
Faculty (Institute) Faculty of electric power engineering and automatics
Qualification Doctor of philosophy in electric power engineering, electrical engineering and electromechanics
Study duration 4 years

Code	Subjects	Department	ECTS Credits	Number of hours					Types of control distributed on semesters								Classroom hours per weeks									
				Total	Classroom hours			Self-study	Exams	Final Tests	Module (theme) tests	Course projects	Coursework	Calc.&graph works	Home tests	Essays	2nd YEAR									
					Lectures	Practical	Laboratory										EB-391φ (0+1)									
								1st Semester				2nd Semesters														
								18 weeks				18 weeks														
Total	Lectures	Practical	Laboratory	Total	Lectures	Practical	Laboratory	Total	Lectures	Practical	Laboratory	Total	Lectures	Practical	Laboratory											
1	2	3	4	5	6	7	8	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26		
I. NORMATIVE TRAINING																										
Educational disciplines for obtaining in-depth knowledge of the specialty																										
1	Methods of research, formation and control of intelligent energy systems and complexes	Department of Power Supply	3	90	4	2		84	4		4					4							6	4	2	
2	Fundamentals of theory of electromagnetic field and processes	Department of Theoretical Electrical Engineering	3	90	13	13		64		3	3					3		26	13	13						
3	Non-conventional and renewable energy sources in electric power systems and electrotechnical complexes	Department of Renewable Energy Sources	3	90	4	2		84		4	4					4							6	4	2	
4	Monitoring, control and protection of electric power systems and electrotechnical complexes	Department of Power Systems Automation	3	90	13	13		64	3		3				3		26	13	13							
total number of part 1			12	360	34	30		296	2	2	4			1	2	1	52	26	26		12	8	4			
Educational disciplines for acquiring universal competencies of a researcher																										

5	Advanced technologies in electric drive and electromechanical systems-2	Department of Theoretical Electrical Engineering	2	60	13		47	3		3					3	13	13									
6	Pedagogical Internship	Department of Theoretical Electrical Engineering	4	120			120		3																	
total number of part 2			6	180	13		167	1	1	1					1	13	13									
TOTAL IN NORMATIVE TRAINING			18	540	47	30	463	3	3	5					1	2	2	65	39	26		12	8	4		
II. VOCATIONAL TRAINING																										
Optional courses																										
	Optional subject #1 from F-Catalogue		3	90	7	6	77		3	3				3			13	7	6							
7	Special issues of protection against electromagnetic effect of lightning	Department of Theoretical Electrical Engineering	3	90	7	6	77		3	3				3			13	7	6							
	Optional subject #2 from F-Catalogue		3	90	4	2	84		4	4				4							6	4	2			
8	Analysis and research of development of lightning discharge channel as dynamic system	Department of Theoretical Electrical Engineering	3	90	4	2	84		4	4				4							6	4	2			
	Optional subject #3 from F-Catalogue		4	120	4	2	114	4		4				4							6	4	2			
9	Mathematical modeling of systems of protection of electrotechnical complexes against electromagnetic effects of lightnings	Department of Theoretical Electrical Engineering	4	120	4	2	114	4		4				4							6	4	2			
total number of part 1			10	300	15	10	275	1	2	3				3			13	7	6		12	8	4			
TOTAL IN VOCATIONAL TRAINING			10	300	15	10	275	1	2	3				3			13	7	6		12	8	4			
TOTAL			28	840	62	40	738	4	5	8				4	2	2	78	46	32		24	16	8			
Number of		Examinations						4									2				2					
		Final tests								5									3				2			
		Module (theme) tests										8								4				4		
		Course projects																								
		Coursework																								
		Calculation and graphic works													4					2				2		
		Home tests															2					1			1	
Essays																2					1			1		

Head of the Scientific and Methodical Board of Speciality _____ / Oleksandr Yandulsky /

Dean of the Faculty _____ / Oleksandr Yandulsky /