

Code n/a	Components of the educational and professional program (education disciplines, course projects (paper), practice, qualification work)	Amount of credits ECTS	The final control
1	2	3	4
1. GENERAL TRAINING CYCLE			
Compulsory components EPP			
1	Higher mathematics	15	exam
2	Physics	8	exam
3	Theoretical mechanics	4	exam
Compulsory components EPP by decision of the Academic Council of the University			
1.1	History of Ukrainian statehood	4	exam
1.2	Ukrainian language for professional purposes	4	exam
1.3	Physical Education	8	tests
1.4	Foreign Language	4	exam
1.5	Philosophy	4	exam
1.6	Ethnocultural studies	4	exam
2. SPECIAL (PROFESSIONAL) TRAINING CYCLE			
Compulsory components EPP			
4	Engineering and computer graphics	4	exam
5	Computer technology and programming	4	exam
6	Fundamentals of heat engineering	4	exam
7	Electronics and integrated circuits	4	exam
8	Electrical materials	4	exam
9	Electrotechnical Systems of Power Consumption	4	exam
10	Theoretical foundations of electrical engineering	9	exam
11	Electrical apparatus	4	exam
12	Electric machines	8	exam
13	Electrical networks	4	exam
14	Foundations of Automation	5	exam
15	Electrical Part of Stations and Substations	4	exam
16	Microprocessor technology	4	exam
17	Metrology and electrical measurements	4	exam
18	Fundamentals of Electric Drive.	8	exam
19	Fundamentals of Electricity Supply.	5	exam
20	Fundamentals of relay protection and automation of power systems	5	exam
21	Economy and energy services organization	4	exam
22	Energy saving and alternative energy sources	4	exam
23	Mathematical Problems of Energetics	5	exam
The total amount of Compulsory components		124	
Compulsory components EPP by decision of the Academic Council of the University			
1.7	Safety of Labour and Activity.	4	exam
1.8	Fundamentals of Scientific Research	4	exam
1.9	Basics of Business, Management and Marketing	4	exam
The total amount of mandatory components according to the decision of the Academic Council of the University		32	
Optional components EPP			
Optional components by specialty (block 1 "Electricity")			
1.1	Software of engineering and technical calculations	4	exam
1.2	Hydraulics	4	exam
1.3	Technology of production, storage and processing of agricultural products	3	exam
1.4	Mounting of Energy Equipment and Control Systems	4	exam
1.5	Fundamentals of digital control and programming of microcontrollers	4	exam
1.6	Industrial electronics and transforming equipment	3	exam
1.7	Special electric machines	4	exam
1.8	Project management	4	exam
1.9	Diagnostics of power equipment	4	exam
1.10	Basics of Technical Operation of Energy Equipment and Control Facilities	4	exam
1.11	Electric drive of industrial machinery and mechanisms	4	exam

1.12	Fundamentals of AIC energy objects design	4	exam
1.13	Technical service of energy equipment	4	exam
1.14	Thermal power plants and systems	4	exam
Optional components by specialty (block 2 "Electrical Engineering")			
2.1	Software of engineering and technical calculations	4	exam
2.2	Hydraulics	4	exam
2.3	Technology of production, storage and processing of agricultural products	3	exam
2.4	Mounting of Energy Equipment and Control Systems	4	exam
2.5	Fundamentals of digital control and programming of microcontrollers	4	exam
2.6	Industrial electronics and transforming equipment	3	exam
2.7	Special electric machines	4	exam
2.8	Project management	4	exam
2.9	Diagnosis, maintenance and repair of electrical equipment	4	exam
2.10	Power equipment of power plants	4	exam
2.11	Reliability and design of electrical systems	4	exam
2.12	Transients in energy	4	exam
2.13	High voltage technology	4	exam
2.14	Expert decision-making systems in energy	4	exam
Optional components by Student's Choice			
OS 1	<i>Elective discipline 1</i>	3	exam
OS 2	<i>Elective discipline 2</i>	3	exam
Total		60	
Other types of training			
Educational Practice		10	test
Industrial Practice		5	test
Diploma Project		9	defense of Bachelor work
THE TOTAL AMOUNT OF EPP		240	