



CURRICULUM

Professional orientation: **Energetics**
 Program: **Electrical Power Engineering**
 Professional qualification: **Electrical Engineer**
 Educational and qualificational degree: **Bachelor**
 Form of study: **Full - Time**
 Term of study: **4 years / 8 semesters**

No	Subject Name	Types of term control				Semester auditorium load					Unsupervised load	Total work hours	ECTS credits
		E	PA	CP	A	L	S	L	CP CPR	Total			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Mathematics, part 1	1				15	45			180	120	300	7
2	Physics	1				30	15	15		180	120	300	7
3	Technical Mechanics	1				15	30			165	120	285	6
4	Electrotechnical Documentation		1			15		30		165	120	285	6
5	English, part 1				1		30			60	30	90	2
6	Practical Training, part 1				1					30	30	60	1
7	Optional Subject				1					30	30	60	1
7a	Specialized Sport Activities, part 1				1						30	30	1
7b	Sport and Social Adaptation, part 1				1						30	30	1
Total for the 1 semestar:		3	1		3	75	120	45		810	570	1380	30
8	Mathematics, part 2	2				30	30			165	105	270	6
9	Theoretical Electrical Engineering, part 1	2				30		30		165	105	270	6
10	Programming and Computer Technologies in Electric Power Engineering		2			15		30		105	60	165	4
11	Thermal Part of Thermal Power Plants		2			30				135	105	240	5
12	Hydro-power Equipment				2	15		15		105	75	180	4
13	Materials in Electrical Engineering	2				30		30		165	105	270	6
14	English, part 2				2		30			60	30	90	2
15	Practical Training, part 2				2					30	30	60	1
16	Optional Subject				2					30	30	60	1
16a	Specialized Sport Activities, part 2				2						30	30	1
16b	Sport and Social Adaptation, part 2				2						30	30	1
Total for the 2 semestar:		3	2		4	150	60	105		960	645	1605	35
17	Theoretical Electrical Engineering, part 2	3				30		30		180	120	300	7
18	Electrical Measurements	3				30		30		165	105	270	6
19	Power Electronics	3				30		15		135	90	225	5
20	Technology of Electric Power Generation		3			30	15			135	90	225	5
21	Electrical Machines and Apparatus, part 1	3				30		30		165	105	270	6
22	English, part 3		3				30			60	30	90	2

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		E	PA	CP	A	L	S	L	CP CPR	Total			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
23	Practical Training, part 3				3					30	30	60	1
24	Optional Subject				3					30	30	60	1
24a	Specialized Sport Activities, part 3				3						30	30	1
246	Sports Management, part 1				3						30	30	1
Total for the 3 semestar:		4	2		2	150	45	105		900	600	1500	33
25	Installation and Lighting Equipment		4			30	15	15		165	105	270	6
26	Digital and Microprocessor Technics		4			30		15		135	90	225	5
27	Electrical Machines and Apparatus, part 2	4				30		30		165	105	270	6
28	Electric Power System Modelling	4				30	15	15		165	105	270	6
29	Mechanical Part of Electric Power Networks	4				30	30			165	105	270	6
30	Practical Training, part 4				4					30	30	60	1
31	Optional Subject				4					30	30	60	1
31a	Specialized Sport Activities, part 4				4						30	30	1
316	Sports Management, part 2				4						30	30	1
Total for the 4 semestar:		3	2		2	150	60	75		855	570	1425	31
32	Power System Economics		5			30	15			135	90	225	5
33	Electric Power Networks and Systems	5				30	30			165	105	270	6
34	Mechanical Part of Electric Power Networks, project			5					30	30	30	60	2
35	Short Circuits in Electric Power Systems	5				30	15		15	165	120	285	7
36	Technical Safety	5				30	15	15		165	105	270	6
37	Electrical Part of Power Plants and Substations	5				30		30		165	105	270	6
Total for the 5 semestar:		4	1	1		150	75	45	45	825	555	1380	32
38	Electric Power Networks and Systems, project			6					30	30	30	60	2
39	Urban Electric Power Networks	6				30	30			165	105	270	6
40	Remote Control in Electric Power Systems	6				30		30		165	105	270	6
41	Electrical Part of Power Plants and Substations, project			6					30	30	30	60	2
42	Relay Protection	6				30		30		165	105	270	6
43	Optional Subject		6			30	15			135	90	225	5
43a	Grounding and Lightning Protection Installations		6			30	15			45	90	135	5
436	Control and Planning of Electric Power System Operation		6			30	15			45	90	135	5
44	Special Practice				6					90	90	180	3
Total for the 6 semestar:		3	1	2	1	120	45	60	60	780	555	1335	30
45	Electric Power Systems Stability	7				30	15	15		180	120	300	7
46	High Voltage Engineering	7				30		30		165	105	270	6
47	Electric Power System Construction	7				30		30		165	105	270	6
48	Remote Control in Electric Power Systems, project			7					30	30	30	60	2
49	Electric Power Systems Automation	7				30		30		165	105	270	6
50	Optional Subject		7			30		15		135	90	225	5
50a	Auxiliary Power Supply of Power Plants		7			30		15		45	90	135	5
506	Electric Insulation System Testing		7			30		15		45	90	135	5
Total for the 7 semestar:		4	1	1		150	15	120	30	840	555	1395	32
51	Computer-aided Studies of Electric Power Systems	8				30		15	15	165	120	285	7
52	Design and Operation of Power System Relay Protection and Automation	8				30	15	15		180	120	300	7
53	Design and Operation of Power System Relay Protection and Automation, project			8					30	30	30	60	2

No	Subject Name	Types of term control				Semester auditorium load					Unsuper vised load	Total work hours	ECTS credits
		E	PA	CP	A	L	S	L	CP CPR	Total			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
54	Optional Subject	8				30		15		135	90	225	5
54a	Operation of Electric Power Plants and Networks	8				30		15		45	90	135	5
54b	Diagnostics of Electrical Equipment	8				30		15		45	90	135	5
Total for the 8 semestars:		3		1		90	15	45	45	510	360	870	21
Total for all courses of education:		27	10	5	12	1035	435	600	180	6480	4410	10890	244

Facultative subjects

No	Subject Name	Types of term control				Semester auditorium load incl:					Unsuper-vised load	Total work hours	ECTS credits
		E	PA	CP	A	L	S	L	CP CPR	Total			
1	2	3	4	5	6	7	8	9	10	11	12	13	14

Types of graduation	Semester	Unsupervised load	ECTS credits
Preparation of Diploma Thesis / Preparation for State Examination	8	300	10
Defence of Diploma Thesis / State Examination	8		

Accepted from AU with

Protokol No 10 / 25.04.2016

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Valid for 2016 / 2017 г. academic year.

Head of Department EPE:

/ Assoc. Prof. PhD Kamenov Y. /

Dean of Faculty FEE:

/ Assoc. Prof. PhD Yordanova M. /