



CURRICULUM

Professional orientation: **Energetics**

Program: **Electric Power Supply and Electrical Equipment**

Professional qualification: **Electrical Engineer**

Educational and qualifical 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			60	120	180	7
2	Physics	1				30	15	15		60	120	180	7
3	Technical Mechanics	1				15	30			45	120	165	6
4	Electrotechnical Documentation		1			15		30		45	120	165	6
5	English, part 1				1		30			30	30	60	2
6	Practical Training, part 1				1						30	30	1
7	Elective Subject				1						30	30	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 semester:		3	1		3	75	120	45		240	570	810	30
8	Mathematics, part 2	2				30	30			60	105	165	6
9	Theoretical Electrical Engineering, part 1	2				30		30		60	105	165	6
10	Programming and Computer Technologies in Electric Power Engineering		2			15		30		45	60	105	4
11	Materials in Electrical Engineering	2				30		30		60	105	165	6
12	Thermal Part of Thermal Power Plants		2			30				30	105	135	5
13	Hydro-power Equipment				2	15		15		30	75	105	4
14	English, part 2				2		30			30	30	60	2
15	Practical Training, part 2				2						30	30	1
16	Elective Subject				2						30	30	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 semester:		3	2		4	150	60	105		315	645	960	35
17	Theoretical Electrical Engineering, part 2	3				30		30		60	120	180	7
18	Electrical Measurements	3				30		30		60	105	165	6
19	Electrical Machines and Apparatus, part 1	3				30		30		60	105	165	6
20	Power Electronics	3				30		15		45	90	135	5
21	Technology of Electric Power Generation		3			30	15			45	90	135	5
22	English, part 3				3		30			30	30	60	2

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
23	Practical Training, part 3				3						30	30	1
24	Elective Subject				3						30	30	1
24a	Specialized Sport Activities, part 3				3						30	30	1
24b	Sports Management, part 1				3						30	30	1
Total for the 3 semester:		4	1		3	150	45	105		300	600	900	33
25	Electrical Machines and Apparatus, part 2	4				30		30		60	105	165	6
26	Digital and Microprocessor Technics		4			30		15		45	90	135	5
27	Installation and Lighting Equipment		4			30	15	15		60	105	165	6
28	Electrical Drives	4				30		30		60	105	165	6
29	Industrial Converters in Electrical Equipment, part 1	4				30		30		60	105	165	6
30	Practical Training, part 4				4						30	30	1
31	Elective Subject				4						30	30	1
31a	Specialized Sport Activities, part 4				4						30	30	1
31b	Sports Management, part 2				4						30	30	1
Total for the 4 semester:		3	2		2	150	15	120		285	570	855	31
32	Electrical Power Supply, part 1	5				30		30		60	105	165	6
33	Technical Safety	5				30		15		45	120	165	6
34	High Voltage Engineering	5				30		30		60	105	165	6
35	Electrical Part of Power Plants and Substations	5				30		30		60	105	165	6
36	Industrial Converters in Electrical Equipment, part 2		5			30		15	15	60	105	165	6
37	Electrical Part of Power Plants and Substations, project			5					30	30	30	60	2
Total for the 5 semester:		4	1	1		150		120	45	315	570	885	32
38	Electrical Power Supply, part 2	6				30		30		60	105	165	6
39	Electronic and Embedded Systems for Industrial Units Control		6			30	15	15		60	75	135	5
40	Lighting Systems	6				30		30		60	105	165	6
41	Electrical Equipment, part 1	6				30		30		60	105	165	6
42	Operation and Diagnostics of Electrical Devices		6			30		15		45	90	135	5
43	Lighting Systems, project			6					30	30	30	60	2
44	Special Practice				6						60	60	2
Total for the 6 semester:		3	2	1	1	150	15	120	30	315	570	885	32
45	Regimes and Optimization of Electric Power Supply Systems	7				30		30		60	75	135	5
46	Electrical Equipment, part 2	7				30		30		60	105	165	6
47	Systems for Control and Protection in Electric Power Supply Systems	7				30		30		60	105	165	6
48	Electrical Transport	7				30		30		60	105	165	6
49	Optimization of Lighting Systems		7			30		15		45	90	135	5
50	Electrical Equipment, project			7					30	30	30	60	2
Total for the 7 semester:		4	1	1		150		135	30	315	510	825	30
51		8				30		15		45	90	135	5
52	Electrical Equipment for Specialized Manufacturing	8				30		15		45	90	135	5
53	Technical and Economic Issues of Efficient Electrical Power Consumption		8			30		15		45	90	135	5
54	Electrical Power Supply, project			8					30	30	30	60	2
Total for the 8 semester:		2	1	1		90		45	30	165	300	465	17
Total for all courses of education:		26	11	4	13	1065	255	795	135	2250	4335	6585	240

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

Protocol No 10 / 25.04.2016

Modified with Protocols No 11 / 06.06.2016

Valid from the 2016 / 2017 academic year.

The weekly allocation of the classes is fixed according to the "Structure of the Learning Process" Academic Board adopted for the current academic year.

Head of Department EPSEE:

/ Assoc. Prof. PhD Gyurov V. /

Dean of Faculty FEE:

/ Assoc. Prof. PhD Yordanova M. /