



## CURRICULUM

Professional orientation: **Energetics**  
 Program: **Electric Power Supply and Electrical Equipment**  
 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
<b>Total for the 1 semestar:</b>		<b>3</b>	<b>1</b>		<b>3</b>	<b>75</b>	<b>120</b>	<b>45</b>		<b>810</b>	<b>570</b>	<b>1380</b>	<b>30</b>
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	Materials in Electrical Engineering	2				30		30		165	105	270	6
12	Thermal Part of Thermal Power Plants		2			30				135	105	240	5
13	Hydro-power Equipment				2	15		15		105	75	180	4
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
<b>Total for the 2 semestar:</b>		<b>3</b>	<b>2</b>		<b>4</b>	<b>150</b>	<b>60</b>	<b>105</b>		<b>960</b>	<b>645</b>	<b>1605</b>	<b>35</b>
17	Theoretical Electrical Engineering, part 2	3				30		30		180	120	300	7
18	Electrical Measurements	3				30		30		165	105	270	6
19	Electrical Machines and Apparatus, part 1	3				30		30		165	105	270	6
20	Power Electronics	3				30		15		135	90	225	5
21	Technology of Electric Power Generation		3			30	15			135	90	225	5
22	English, part 3				3		30			60	30	90	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	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
<b>Total for the 3 semestar:</b>		<b>4</b>	<b>1</b>		<b>3</b>	<b>150</b>	<b>45</b>	<b>105</b>		<b>900</b>	<b>600</b>	<b>1500</b>	<b>33</b>
25	Electrical Machines and Apparatus, part 2	4				30		30		165	105	270	6
26	Digital and Microprocessor Technics		4			30		15		135	90	225	5
27	Installation and Lighting Equipment		4			30	15	15		165	105	270	6
28	Electrical Drives	4				30		30		165	105	270	6
29	Industrial Converters in Electrical Equipment, part 1	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
<b>Total for the 4 semestar:</b>		<b>3</b>	<b>2</b>		<b>2</b>	<b>150</b>	<b>15</b>	<b>120</b>		<b>855</b>	<b>570</b>	<b>1425</b>	<b>31</b>
32	Electrical Power Supply, part 1	5				30		30		165	105	270	6
33	Technical Safety	5				30		15		165	120	285	6
34	High Voltage Engineering	5				30		30		165	105	270	6
35	Electrical Part of Power Plants and Substations	5				30		30		165	105	270	6
36	Industrial Converters in Electrical Equipment, part 2		5			30		15	15	150	105	255	6
37	Electrical Part of Power Plants and Substations, project			5					30	30	30	60	2
<b>Total for the 5 semestar:</b>		<b>4</b>	<b>1</b>	<b>1</b>		<b>150</b>		<b>120</b>	<b>45</b>	<b>840</b>	<b>570</b>	<b>1410</b>	<b>32</b>
38	Electrical Power Supply, part 2	6				30		30		165	105	270	6
39	Electronic and Embedded Systems for Industrial Units Control		6			30	15	15		135	75	210	5
40	Lighting Systems	6				30		30		165	105	270	6
41	Electrical Equipment, part 1	6				30		30		165	105	270	6
42	Operation and Diagnostics of Electrical Devices		6			30		15		135	90	225	5
43	Lighting Systems, project			6					30	30	30	60	2
44	Special Practice				6					60	60	120	2
<b>Total for the 6 semestar:</b>		<b>3</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>150</b>	<b>15</b>	<b>120</b>	<b>30</b>	<b>855</b>	<b>570</b>	<b>1425</b>	<b>32</b>
45	Regimes and Optimization of Electric Power Supply Systems	7				30		30		135	75	210	5
46	Electrical Equipment, part 2	7				30		30		165	105	270	6
47	Systems for Control and Protection in Electric Power Supply Systems	7				30		30		165	105	270	6
48	Electrical Transport	7				30		30		165	105	270	6
49	Optimization of Lighting Systems		7			30		15		135	90	225	5
50	Electrical Equipment, project			7					30	30	30	60	2
<b>Total for the 7 semestar:</b>		<b>4</b>	<b>1</b>	<b>1</b>		<b>150</b>		<b>135</b>	<b>30</b>	<b>795</b>	<b>510</b>	<b>1305</b>	<b>30</b>
51		8				30		15		135	90	225	5
52	Electrical Equipment for Specialized Manufacturing	8				30		15		135	90	225	5
53	Technical and Economic Issues of Efficient Electrical Power Consumption		8			30		15		135	90	225	5
54	Electrical Power Supply, project			8					30	30	30	60	2
<b>Total for the 8 semestar:</b>		<b>2</b>	<b>1</b>	<b>1</b>		<b>90</b>		<b>45</b>	<b>30</b>	<b>435</b>	<b>300</b>	<b>735</b>	<b>17</b>

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
<b>Total for all courses of education:</b>		<b>26</b>	<b>11</b>	<b>4</b>	<b>13</b>	<b>1065</b>	<b>255</b>	<b>795</b>	<b>135</b>	<b>6450</b>	<b>4335</b>	<b>10785</b>	<b>240</b>

### 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

Changed with Protokol No 11 / 06.06.2016 r.

**Valid for 2016 / 2017 r. academic year.**

Head of Department EPSEE:

/ Assoc. Prof. PhD Gyurov V. /

Dean of Faculty FEE:

/ Assoc. Prof. PhD Yordanova M. /