

Professional orientation: **Electrical engineering, electronics and automation**  
 Educational and qualification degree: **Bachelor**  
 Program: **Biomedical Electronics**  
 Professional qualification: **Engineer of Biomedical Electronic**  
 Length of study: **4 years**  
 Mode of study: **Full - Time**

No	Subject Name	Credits
1	Mathematics, part 1	7
2	Physics	6
3	Computer Technologies	6
4	Technical Documentation	6
5	Foreign Language, part 1	3
6	Practical Training, part 1	1
7	Optional Subject	1
a	General Sport Activities	
b	Specialized Sport Activities	
8	Mathematics, part 2	6
9	Circuit and Field Theory, part 1	6
10	Introduction to MATLAB	5
11	Electronic Components	6
12	Electrical Materials	5
13	Foreign Language, part 2	2
14	Practical Training, part 2	1
15	Optional Subject	1
a	General Sport Activities	
b	Specialized Sport Activities	
16	Mathematics, part 3	6
17	Circuit and Field Theory, part 2	6
18	Semiconductor Devices and Technologies	6
19	Electrical Measurements	5
20	Electromechanical Devices	5
21	Foreign Language, part 3	2
22	Optional Subject	1
a	General Sport Activities	
b	Specialized Sport Activities	
23	Digital Electronic Circuits	7
24	Signals and Systems	6
25	Analysis and Synthesis of Electronic Circuits	7
26	Control Theory	6
27	Design and Reliability of Electronic Equipment	6
28	Optional Subject	1
a	General Sport Activities	
b	Specialized Sport Activities	

29	Analog Circuits	6
30	Electrical Safety	5
31	Microprocessor Circuits	6
32	Power Supply Devices	7
33	Computer Aided Design in Electronics	7
34	Optional Project	2
a	Analog Circuits	
b	Design and Reliability of Electronic Equipment	
35	Power Electronic Converters	6
36	Microprocessor Systems	6
37	Measurements in Biomedical Electronics	5
38	Optoelectronic and Laser Devices	5
39	Electromagnetic Compatibility (EMC)	5
40	Microprocessor Systems, project	2
41	Specialized Practical Training	4
42	Digital Signal Processing	6
43	Acquisition, Processing and Analysis of Biomedical Signals	7
44	Biomedical Electronics	7
45	Economics	5
46	Measurement Electronics	7
47	Power Electronic Converters, project	2
48	Acquisition Processing and Analysis of Biomedical Images	7
49	Biomedical Imaging Equipment	7
50	Medical Electronics	5
51	Optional Project	4
a	Biomedical Electronics	
b	Acquisition, Processing and Analysis of Biomedical Signals	
52	Preliminary diploma thesis Project	4
<b>TOTAL</b>		<b>253</b>