

PLAN STUDIÓW STACJONARNYCH I-EGO STOPNIA NA KIERUNKU MAKROKIERUNEK

Specjalność: Electronics

Numer	NAZWA PRZEDMIOTU	GODZINY						Sem.1					Sem.2					Sem.3					Sem.4					Sem.5					Sem.6					Sem.7							ECTS					
		Σ	W	Ć	L	P	S	W	Ć	L	P	S	W	Ć	L	P	S	W	Ć	L	P	S	W	Ć	L	P	S	W	Ć	L	P	S	W	Ć	L	P	S	D	S											
1	Physical education	60	0	60	0	0	0	2	2				2					2					2																											
2	Foreign language	120	0	120	0	0	0	2				2						2								2																								
3	Algebra and analytic geometry	75	45	30	0	0	0	2	1			E	5	1	1			E	5																															
4	Calculus and differential equations	120	60	60	0	0	0	2	2			E	6	2	2			E	5																															
5	Introduction to electrical and electronic circuits	120	60	45	15	0	0	2	2				5	2	1	1			E	6																														
6	Fundamentals of computer programming	60	30	0	30	0	0	2		2			5																																					
7	Theory of logic circuits	90	30	30	30	0	0	2	2				5		2																																			
8	Social sciences 1	30	15	0	0	15	0	1			1		2																																					
9	Physics	120	60	30	30	0	0							2	1			3	2	1	2			E	6																									
10	Computer programming	90	45	0	45	0	0							1		1		3	2		2				4																									
11	Discrete mathematics	30	15	15	0	0	0							1	1			3																																
12	Optimization and decision making	60	30	0	30	0	0											2	2					5																										
13	Probability and statistics	60	30	0	30	0	0											2	2					5																										
14	Electronic devices and circuits	120	60	30	30	0	0											3					3	1	2	2		E	6																					
15	Introduction to system dynamics	45	30	15	0	0	0								2	1			E	5																														
16	Numerical methods	60	30	0	30	0	0																	2	2			4																						
17	Digital circuits	60	30	15	15	0	0																	2	1	1		5																						
18	Measurement systems	60	30	0	30	0	0																	2	2		E	6																						
19	Theory of computer science	90	30	30	30	0	0																	2	2			5			2			3																
20	Social sciences 2	30	15	0	0	15	0																1			1	2																							
21	Artificial intelligence	60	30	0	30	0	0																					2	2																					
22	Control fundamentals	105	45	30	30	0	0																			3	2			E	6			2			2													
23	Computer networks	60	30	0	30	0	0																			2	2		E	6																				
24	Analog and digital signal processing	60	30	0	30	0	0																			2	2			5																				
25	Microprocessor systems	60	15	0	30	15	0																		1	2	1		4																					
26	Project management	30	15	0	0	15	0																		1			1	2																					
27	Computer graphics	60	30	0	30	0	0																																3											
28	Embedded systems	60	30	0	30	0	0																																3											
29	Databases	60	30	0	30	0	0																																4											
30	Operating systems	60	30	0	30	0	0																																											
31	Analog circuits design - practical approach	45	15	0	30	0	0																																											
32	Materials and processes for electronic technology	30	0	0	15	15	0																																1											
33	Programmable logic controllers	45	15	0	30	0	0																																	3										
34	Fundamentals of telecommunication	45	15	0	30	0	0																																	3										
35	Industrial training	0	0	0	0	0	0																																	4										
36	Computer architecture	60	30	0	30	0	0																																	2										
37	Hardware description languages (VHDL/ Verilog)	60	30	0	30	0	0																																	2										
38	Design for manufacture	45	30	0	15	0	0																																	2										
39	Optional course E1	30	15	0	15	0	0																																	1										
40	Optional course E2	30	15	0	15	0	0																																		1									
41	Optional course E3	30	15	0	15	0	0																																		1									
42	Final project	45	0	0	0	45	0																																		3									
		2580	1110	510	840	120	15	11	11	2	1		30	9	10	4	0		30	13	4	8	0		30	10	7	7	1		30	11	2	10	2		30	11	0	17	1		30	9	0	8	3	1		30
	Liczba godzin tygodniowo							25					23					25					25					25					29					23												
	Liczba egzaminów							2					3					2					3					2					2					1												
	Liczba zaliczeń							8					9					7					7					7					9					7												

Variant teaching techniques: classical vs interactive and problem based

Optional courses