PLAN STUDIÓW STACJONARNYCH I-EGO STOPNIA NA KIERUNKU MAKROKIERUNEK

Specjalność: Electronics

Numer	NAZWA PRZEDMIOTU	GODZINY						Sem.1				ECTS	Sem.2				ECTS	Sem.3				ECTS	Sem.4				ECTS	Sem.5				ECTS	Sem.6				ECTS	Sem.7						ECTS
		Σ	W	Ć	L	P	S	W	Ć	L	P		W	Ć	L	P		W	Ć	L	P		W	Ć	L	P		W	Ć	L	P		W	Ć	L	P		W	Ć	L	P	S	D	
1	Physical education	60	0	60	0	0	0		2					2																													
2	Foreign language	120	0	120	0	0	0		2			2		2			2		2			2		2		E	2															
3	Algebra and analytic geometry	75	45	30	0	0	0	2	1			5	1	1		E	5																									
4	Calculus and differential equations	120	60	60	0	0	0	2	2			6	2	2		E	5																									
5	Circuit theory	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		3																									
8	Social sciences 1	30	15	0	0	15	0	1			1	E 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	Introduction to electronics	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		4								
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	Fundamentals of 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	Social sciences 3	15	15	0	0	0	0																						1				1								
27	Project management	30	15	0	0	15	0																						1			1	1								
28	Computer graphics	60	30	0	30	0	0																											2		2		4			
29	Embedded systems	60	30	0	30	0	0																											2		2		4			
30	Databases	60	30	0	30	0	0																											2		2	E	5			
31	Operating systems	60	30	0	30	0	0																											2		2	E	4			
32	Mixed signal circuits design	60	30	0	0	30	0																											2			2	3			
33	Optional course E1	30	15	0	15	0	0																											1		1		2			
34	Optional course E2	30	15	0	15	0	0																											1		1		2			
35	Industrial training	0	0	0	0	0	0																															4			
36	Final project	45	0	0	0	30	15																																2	1	E	15
37	Optional course E3	30	15	0	15	0	0																																1		1			2
38	Computer Architecture	60	30	0	30	0	0																																2		2			3
39	Digital circuits design	60	30	0	30	0	0																																2		2			3
40	Design for manufacture	45	30	0	15	0	0																																2		1			3
41	Optional course E4	45	15	0	30	0	0																																1		2			2
42	Optional course E5	45	15	0	30	0	0																																1		2			2
		2580	1140	510	795	120	15	11	11	2	1	30	9	10	4	0	30	13	4	8	0	30	10	7	7	1	30	12	2	10	2	30	12	0	12	2	30	9	0	10	2	1		30
		Liczba godzin tygodniowo						25					23					25					25					26					26					23						
		Liczba egzaminów						1					3					2					3					2					2					1						
		Liczba zaliczeń						7					6					5					4					6					7					6						

Variant teaching techniques: classical vs interactive and problem based

Optional courses

Powyższy plan studiów obowiązuje studentów rozpoczynających naukę w roku akademickim 2017/2018 i w latach następnych.