PLAN STUDIÓW STACJONARNYCH I-EGO STOPNIA NA KIERUNKU MAKROKIERUNEK

(control, electronic and information engineering)

Courses for all specializations

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
			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			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 electric 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			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	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				4			2			3														
20	Social sciences 2	30	15	0	0	15	0																			1			1		3																				
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	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																															2		2			3								
28	Embedded systems	60	30	0	30	0	0																															2		2			3								
29	Databases	60	30	0	30	0	0																															2		2		E	4								
30	Operating systems	60	30	0	30	0	0																															2		2		E	4								
31	Specialization module	0	0	0	0	0	0																																				10								9
32	Optional course 1	30	15	0	15	0	0																																					*1*		*1*					2
33	Optional course 2	30	15	0	15	0	0																																					*1*		*1*					2
34	Optional course 3	30	15	0	15	0	1																																					*1*		*1*					2
35	Industrial training	0	0	0	0	0	0																																				4								
36	Final project	30	0	0	0	30	0																																								2		E	13
37	Final project seminar	15	0	0	0	0	15																																									1		2
		2250	975	510	660	90	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	8	0	10	0		30	3	0	3	2	1		30
		Liczba godzin tygodniowo						25						23						25						25						25						18						9						
		Liczba egzaminów						3						3						2						3						2						2						1						
		Liczba zaliczeń						7						6						5						4						6						7						6						

Przedmiot wybieralny:

Variant teaching techniques: classical vs interactive and problem based

Optional courses

Plan obowiązuje od roku akademickiego 2023/2024