PLAN STUDIÓW STACJONARNYCH I-EGO STOPNIA NA KIERUNKU MAKROKIERUNEK

Courses for all specializations

Numer	NAZWA PRZEDMIOTU	Σ	GODZINY						Sem.1					ECTS	Sem.2					ECTS	Sem.3					ECTS	Sem.4					ECTS	Sem.5					ECTS	Sem.6					ECTS	Sem.7						ECTS	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																																				0
2	Foreign language	120	0	120	0	0	0		2				2		2				2		2				2		2			E	2																				8
3	Algebra and analytic geometry	75	45	30	0	0	0	2	1			E	5	1	1			E	5																																	10
4	Calculus and differential equations	120	60	60	0	0	0	2	2			E	6	2	2			E	5																																	11
5	Introduction to electric and electronic circuits	120	60	45	15	0	0	2	2				5	2	1	1		E	6																																	11
6	Fundamentals of computer programming	60	30	0	30	0	0	2		2			5																																							5
7	Theory of logic circuits	90	30	30	30	0	0	2	2				5			2			3																																	8
8	Social sciences 1	30	15	0	0	15	0	1			1	E	2																																							2
9	Physics	120	60	30	30	0	0							2	1				3	2	1	2		E	6																											9
10	Computer programming	90	45	0	45	0	0							1		1			3	2		2			4																											7
11	Discrete mathematics	30	15	15	0	0	0							1	1				3																																	3
12	Optimization and decision making	60	30	0	30	0	0													2		2			5																											5
13	Probability and statistics	60	30	0	30	0	0													2		2			5																											5
14	Electronic devices and circuits	120	60	30	30	0	0													3					3	1	2	2		E	6																					9
15	Introduction to system dynamics	45	30	15	0	0	0													2	1			E	5																											5
16	Numerical methods	60	30	0	30	0	0																			2		2			4																					4
17	Digital circuits	60	30	15	15	0	0																			2	1	1			5																					5
18	Measurement systems	60	30	0	30	0	0																			2		2		E	6																					6
19	Theory of computer science	90	30	30	30	0	0																			2	2				4			2			3															7
20	Social sciences 2	30	15	0	0	15	0																			1			1		3																					3
21	Artificial intelligence	60	30	0	30	0	0																									2		2			4															4
22	Control fundamentals	105	45	30	30	0	0																									3	2			E	6			2			2									8
23	Computer networks	60	30	0	30	0	0																									2		2		E	6															6
24	Analog and digital signal processing	60	30	0	30	0	0																									2		2			5															5
25	Microprocessor systems	60	15	0	30	15	0																									1		2	1		4															4
26	Project management	30	15	0	0	15	0																									1			1		2															2
27	Computer graphics	60	30	0	30	0	0																															2		2			3									3
28	Embedded systems	60	30	0	30	0	0																															2		2			3									3
29	Databases	60	30	0	30	0	0																															2		2		E	4									4
30	Operating systems	60	30	0	30	0	0																															2		2		E	4									4
31	Specialization module	0	0	0	0	0	0																																				10								9	19
32	Optional course 1	30	15	0	15	0	0																																					*1*		*1*				2	2
33	Optional course 2	30	15	0	15	0	0																																					*1*		*1*				2	2
34	Optional course 3	30	15	0	15	0	1																																					*1*		*1*				2	
35	Industrial training	0	0	0	0	0	0																																				4								4
36	Final project	30	0	0	0	30	0																																								2		E	13	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							**206**
		Liczba egzaminów						3						3						2						3						2						2						1							0,98
		Liczba zaliczeń						7						6						5						4						6						7						6							Razem

Przedmiot wybieralny:

Variant teaching techniques: classical vs interactive and problem based

Optional courses

%

Powyższy plan studiów obowiązuje studentów rozpoczynających naukę w roku akademickim 2019/2020 i w latach następnych.