

PLAN STUDIÓW: 2019/2020 S2ET1E ; second cycle, stationary

Data zatwierdzenia: 28-06-2019

Rodzaj studiów: MSc in ICT(4)

Kierunek: Electronics and Telecommunications

No	Course name	ECTS	E.	General number of hours						Semester 0					Semester 1					Semester 2					Semester 3				
				Total	Lectures	Exercises	Labs	Projects	DS.	Lectures	Exercises	Labs	Projects	DS.	Lectures	Exercises	Labs	Projects	DS.	Lectures	Exercises	Labs	Projects	DS.	Lectures	Exercises	Labs	Projects	DS.
1	OHS (Occupational Health and Safety)	0		4	4	0	0	0	0	4(1)																			
2	Telecommunications systems	4	1	60	30	30	0	0	0	2	2																		
3	Digital Signal Processing	5		60	30	0	30	0	0	2		2																	
4	Elective course 0.1	4	1	60	30	30	0	0	0	2	2																		
	1.Digital communication systems																												
5	Elective course 0.2	5	1	60	30	0	30	0	0	2		2																	
	1.Introduction to programming in Matlab																												
6	Elective course 0.3	5	1	60	30	0	30	0	0	2		2																	
	1.Fundamentals of multimedia																												
7	Elective course 0.4	5	1	60	30	0	30	0	0	2		2																	
	1.Communication Networks																												
8	Programming in C++	2		30	0	0	30	0	0			2																	
9	Selected topics in mathematics	5	1	90	45	45	0	0	0						3	3													
10	Simulation techniques	3		30	15	15	0	0	0						1	1													
11	Foreign/Polish/English/ language	2		30	0	30	0	0	0							2													
12	Information and coding theory	4	1	60	30	30	0	0	0						2	2													
13	Network management	3	1	45	15	15	15	0	0						1	1	1												
14	Mobile systems	3	1	45	30	15	0	0	0						2	1													
15	Multimedia systems	2		30	15	0	15	0	0						1		1												
16	Satellite navigation systems	2		30	30	0	0	0	0						2														
17	Optical fiber comm. Systems	3	1	45	30	0	15	0	0						2		1												

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18	Elective Course in the Humanities or Social Science 1.Economics of Businesses 2.Interpersonal Communication	2		30	30	0	0	0	0											2									
19	Optimization methods	2		30	15	0	15	0	0											1		1							
20	Telecommunication network design	3	1	45	30	15	0	0	0											2	1								
21	Programmable digital systems	3	1	45	15	0	30	0	0											1		2							
22	Advanced signal processing algorithm	4	1	60	30	30	0	0	0											2	2								
23	Workshop	2		30	0	0	0	30	0														2						
24	Elective course 2.1 1.Security in communication networks 2.Electronics Computer Aided Design 3.Programming of AVR microcontrollers 4.Spread spectrum systems 5.Advanced programming in multimedia	5	1	60	30	0	30	0	0											2		2							
25	Elective course 2.2 1.Digital technology of audio and speech 2.Wireless system design 3.Embedded systems	5	1	60	30	0	30	0	0											2		2							
26	Elective course 2.3 1.Networked surveillance systems 2.Programming of mobile terminal 3.Advanced coding techniques	4		60	30	15	15	0	0											2	1	1							
27	Elective course 3.0 1.Broadband Networks 2.Advanced transmission technics in wireless systems 3.IP-based video surveillance	3		30	15	0	15	0	0																1		1		



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28	Elective course 3.1	4	1																										
	1.Digital television																												
	2.Optical Networks																												
	3.Advanced data compression																												
	4.Traffic control																												
	5.Line of sight radio systems																												
29	6. <u>Software defined and cognitive radio</u>			45	30	0	0	15	0																2			1	
29	Elective course 3.2	4	1																										
	1.Testing of digital systems																												
	2.Synchronous hierarchy of digital systems																												
	3.Advanced Programming Of Mobile Devices																												
	4.Optimization of comm.. networks																												
	5.4G wireless networks																												
30	6. <u>Multimedia mobile applications</u>			45	30	0	15	0	0																2		1		
30	Elective course 3.3	4																											
	1.Design of systems with FPGA																												
	2.Audio engineering																												
	3.Switching Systems																												
	4.IP Telephony																												
	5. <u>Security in wireless networks</u>					45	15	0	30	0	0																1		2
31	Elective Course in Economic Science	3																											
	1.Concepts and Tools of Modern Business Management																												
31	2. Business Negotiations			30	15	15	0	0	0																	1			
32	Diploma seminar	12		15	0	0	0	0	15																		1		
33	Thesis submission	0		0	0	0	0	0	0																		0		
				0	0	0	0	0	0																				
	Total	117	17	1429	709	285	375	45	15	12	4	10	0	0	14	10	3	0	0	14	4	8	2	0	7	1	4	1	1
Razem godzin/tydzień:										26					27					28					14				
Razem egzaminów w semestrze:										5					5					5					2				
34	Internship (Practical placement)	3		160																									
	Total	120	17	1589	709	285	375	45	15																				

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Prodziekan