PLAN STUDIÓW: 2019/2020 ETE210; 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	Excercises	Labs	Projects	DS.	Lectures	Excercises	Labs	Projects	DS.	Lectures	Excercises	Labs	Projects	DS.	Lectures	Excercises	Labs	Projects	DS.	Lectures	Excercises	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 1.Digital communication systems 2.Foundations of wireless communications	4	1	**60**	30	30	0	0	0	**2**	**2**																		
5	Elective course 0.2 1.Introduction to programming in Matlab 2.Processing and compression of audiovisual signals	5	1	**60**	30	0	30	0	0	**2**		**2**																	
6	Elective course 0.3 1 .Fundamentals of multimedia 2. Multimedia technology	5	1	**60**	30	0	30	0	0	**2**		**2**																	
7	Elective course 0.4 1 Communication Networks 2.Networking Technologies	5	1	**60**	30	0	30	0	0	**2**		**2**																	
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												
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**						

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				Total	Lectures	Excercises	Labs	Projects	DS.	Lectures	Excercises	Labs	Projects	DS.	Lectures	Excercises	Labs	Projects	DS.	Lectures	Excercises	Labs	Projects	DS.	Lectures	Excercises	Labs	Projects	DS.
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**		
28	Elective course 3.1 1.Digital television 2.Optical Networks 3.Advanced data compression 4.Traffic control 5.Line of sight radio systems 6.Software defined and cognitive radio	4	1	**45**	30	0	0	15	0																**2**			**1**	
29	Elective course 3.2 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 6.Multimedia mobile applications	4	1	**45**	30	0	15	0	0																**2**		**1**		
30	Elective course 3.3 1.Design of systems with FPGA 2.Audio engineering 3.Switching Systems 4.IP Telephony 5.Security in wireless networks	4		**45**	15	0	30	0	0																**1**		**2**		
31	**Elective Course in Economic Science** 1.Concepts and Tools of Modern Business Management 2. Business Negotiations	3		**30**	15	15	0	0	0																**1**	**1**			

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				Total	Lectures	Excercises	Labs	Projects	DS.	Lectures	Excercises	Labs	Projects	DS.	Lectures	Excercises	Labs	Projects	DS.	Lectures	Excercises	Labs	Projects	DS.	Lectures	Excercises	Labs	Projects	DS.
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																				