Curriculum

Type of studies - **First cycle, full-time**

Direction: **Electronics and Telecommunications**

BSc

Poznan University of Technology
Faculty Electronics and Telecommunications

No.	Course name	ECTS	Number of ex.	General number of hours: Total	including: Lecture	Classes	Laboratory	Project	Distribution of courses in semesters: Semester I (L C Lab P)	Semester II (L C Lab P)	Semester III (L C Lab P)	Semester IV (L C Lab P)	Semester V (L C Lab P)	Semester VI (L C Lab P)	Semester VII (L C Lab P)	Semester VIII (L C Lab P)	Semester IX (L C Lab P)	Semester X (L C Lab P)
									Number of hours per week									
1	Student's rights and duties	0		1	1				1(1)									
2	Occupational Health and Safety			4	4				4(1)									
3	EC 1.1 1. History of Poland 2. Elements of sociology and ethics	2		30	30				2									
4	Mathematics 1- Analysis	8	1	120	60	60			4 4									
5	Mathematics 2- Algebra	4	1	45	15	30			1 2									
6	Algorithms in electronics and telecommunications	6	1	60	30		30		2 2									
7	Introduction to ICT networks	3		30	15		15		1 1									
8	Sport	0//0		60		60			2	2								
9	Metrology	4//3		60	30		30		2	2								
10	Foreign language: Polish/English	3//3	1	120		120			4	4								
11	Physics	5	1	75	30	30	15			2 2 1								
12	Programming in C	7	1	60	30		30			2 2								
13	Electrical circuits	5	1	60	30	30				2 2								
14	Signal theory	5	1	60	30	30				2 2								
15	EC 2.1 1. Business in ICT 2. Principles of entrepreneurship	2		30		30				2								
16	EM waves	4	1	60	30		30				2 2							
17	Semiconductor devices and analog electronics	5	1	75	30		45				2 3							
18	System theory	5	1	60	30		30				2 2							
19	Probabilistic methods in electronics and telecommunications	3		45	30	15					2 1							
20	Programming in C++	5	1	60	30		30				2 2							
21	Digital systems design	5//4	1	105	45	30	30				2 2	1 2						
22	Foundations of telecommunications	3//6	1	135	60	45	30				2 1	2 2 2						
	Total	100	14	1355	560	480	315		12 12 3	8 14 5	14 4 9	3 2 4						
				Hours per week					27	27	27	9						
				Exams per semester					3	4	4	3						

Note:
- exam indicated by a violet field

Remarks :
- credits of all courses not finishing with an exam - on the basis of current checks of the progress during semester or on the basis of final test.

Internship

after sem.	duration	type of internship
during studies after sixth semester	4 weeks	professional

Attachment :

Valid since : 01-10-2017

Changes :

Approval:
Faculty Council
Date: 27-06-2017

DZIEKAN
WYDZIAŁU ELEKTRONIKI I TELEKOMUNIKACJI
POLITECHNIKI POZNAŃSKIEJ

prof. dr hab. inż. Krzysztof Wesołowski
Dean

Curriculum

Type of studies - **First cycle, full-time**

Direction: **Electronics and Telecommunications**

BSc

Poznan University of Technology
Faculty Electronics and Telecommunications

No.	Course name	ECTS	Number of ex.	General number of hours: Total	including: Lecture L	Classes C	Laboratory Lab	Project P	Distribution of courses in semesters — Number of hours per week: Semester I (L C Lab P)	Semester II (L C Lab P)	Semester III (L C Lab P)	Semester IV (L C Lab P)	Semester V (L C Lab P)	Semester VI (L C Lab P)	Semester VII (L C Lab P)	Semester VIII (L C Lab P)	Semester IX (L C Lab P)	Semester X (L C Lab P)
		100	14	1355	560	480	315		12 12 3	8 14 5	14 4 9	3 2 4						
23	Digital signal processing	6	1	75	45		30					3 2						
24	Computer networks	5		60	30		30					2 2						
25	Telecommunication networks	5	1	60	45	15						3 1						
26	Optotelecommunication	2/3	1	75	30		30	15				2	2 1					
27	Microprocessors	2/3	1	75	30		45					2	3					
28	Introduction to multimedia	5	1	60	30		30						2 2					
29	Programmable digital circuits	4		60	30		30						2 2					
30	EC on Digital communication systems 1. Digital communications 2. Digital modulations	4	1	45	30	15							2 1					
31	Simulation techniques	3		45	30		15						2 1					
32	EC on CAD techniques 1. Computer aided design 2. Computer analysis of electronic circuits	3		45	15		30						1 2					
33	EC on Object oriented programming 1.Java programming 2.C# programming	5		60	30		30						2 2					
34	EC on advanced topics in networks 1. Practical design of communication networks 2. Internet of things	5		60	30		30							2 2				
35	Multimedia communications	4	1	60	30		30							2 2				
36	Radiocommunication	4	1	60	30	30								2 2				
37	EC on Measurement systems 1. Computer measurement systems 2. Design of measurement systems	4		60	30		30							2 2				
38	EC on Databases 1. Database architectures 2. Database application programming	2		30	15		15							1 1				
39	Internship	2																
40	EC on Network operating systems 1. Hardware oriented network operating systems 2. Application oriented network operating systems	3		45	15		30							1 2				
41	EC on Synchronous networks 1. Synchronous digital hierarchy in communication networks 2. Hierarchies of digital transmission systems	3	1	45	30			15						2 1				
42	EC on topics in video processing 1. Introduction to visual data analysis 2. Introduction to object and event recognition	3		45	30		15							2 1				
43	EC on optical and/or switching networks 1. Optical networks 2. Switching systems	3	1	45	30		15								2 1			
44	EC on Programming of mobile terminals 1. Programming of mobile terminals in Android 2. Programming of mobile terminals in IOS	4		45	15		30								1 2			
45	EC on Optoelectronics and photonics 1. Optoelectronics and photonics 2. Optoelectronic and photonic elements and technology	4		30	15		15								1 1			
46	EC on Wireless local area networks 1. Wireless LANs, PANs and MANs 2. IEEE 802 networks	5	1	60	30		30								2 2			
47	**Diploma seminar**	14		15				15							1			
48	**Thesis submission**																	
	Total	210	25	2615	1205	540	825	45	12 12 3	8 14 5	14 4 9	15 3 8	11 1 13 2	14 2 10 1	6 6 1			
				Hours per week					27	27	27	26	27	27	13			
				Exams per semester					4	3	4	5	4	3	2			

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Remarks :
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Internship		
after sem.	duration	type of internship
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