

Computer Science
Specialty: Programming and mobile technologies

Academic degree: Bachelor of Engineering

Educational profile: practical

Form of study: full-time

Lp.	Name of the item	Form of credit	Sum of hours	lecture	exercise	lab/editing	design	practice	ECTS	ECTS for the foreword practical	ECTS for the foreword elective	ECTS for the foreword to the shape at a distance	
SEMESTER I													
1	Foreign language	ZO	30			30			2		+		
2	Social informatics/ Philosophy of computer science	ZO	30	15	15				1		+	+	
3	Social competence	ZO	30	15	15				2			+	
4	Physical education	ZO	30		30				0				
5	OSH training	Z	4	4					0				
6	Librarian training	Z	2		2				0				
7	Mathematical analysis	E	60	30	30				5				
8	Logic and set theory	E	60	30	30				4				
9	Digital techniques and technologies	ZO	15	15					1	+		+	
10	Computer science and computer systems architecture fundamentals	E	45	15		30			5	+			
11	Basics of programing	ZO	60	30		30			6	+			
12	Computer graphics techniques	ZO	30	15		15			4	+			
Σ			396	169	122	105	0	0	0	30	16	3	4
SEMESTER II													
13	Foreign language	ZO	30			30			2		+		
14	Physical education	ZO	30		30				0				
15	Linear algebra with analytical geometry	E	45	15	30				3				
16	Physics	E	60	15	15	30			4	+			
17	Discrete mathematics	ZO	45	15	30				3				
18	Ecological engineering/Renewable energy sources	ZO	60	30		30			3	+	+		
19	Electronic measurement	ZO	45	15		30			3	+			
20	Digital techniques and technologies	ZO	15			15			1	+			
21	Basics of object-oriented programming	E	45	15		30			3	+			
22	Computer Networks	ZO	60	30		30			3	+			
23	Internet technologies	E	45	15		30			3	+			
24	Social and professional issues of computer science	ZO	30	15		15			2	+			
Σ			510	165	105	240	0	0	0	30	22	5	0
SEMESTER III													
25	Foreign language	E	30			30			2		+		
26	Signal analysis and processing/ Digital signal processing	E	75	30		30	15		3	+	+		
27	Probabilistic methods and statistics	ZO	45	15		15	15		3	+			
28	Fundamentals of automation	E	60	30		30			4	+			
29	Digital techniques and technologies	ZO	15				15		1	+			
30	Algorithms and data structures	E	60	30		30			5	+			
31	Object oriented programming	ZO	45	15		30			4	+			
32	Operating Systems	ZO	45	15		30			4	+			
33	Designing mobile applications on Android	ZO	45	15		30			4	+	+		
Σ			420	150	0	225	45	0	0	30	28	9	0

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SEMESTER IV													
34	Foreign language	E	30			30			2		+		
35	Fundamentals of electrical engineering and electronics	ZO	60	15		30	15		3	+			
36	Basics of databases	E	45	15		30			2	+			
37	Introduction to web applications	E	45	15		30			2	+			
38	Professional practice	ZO	480					480	18	+			
39	Advanced object oriented programming	E	45	15		30			3	+	+		
Σ			705	60	0	150	15	0	480	30	28	5	0
SEMESTER V													
40	Diploma seminar	ZO	15		15				2	+	+	+	
41	Database	ZO	45	15		30			3	+			
42	Modeling and computer simulations	ZO	30	15		15			3	+			
43	Basics of telecommunications / Basics of ITT	ZO	45	15			30		3	+	+		
44	IT project / IT project Implementation	ZO	45				45		6	+	+		
45	Numerical Methods	ZO	45	15		30			2	+			
46	Computer architecture	E	60	30		30			3	+			
47	Multimedia technics	ZO	30	15		15			3	+			
48	Programming of microcontrollers	E	45	15		15	15		3	+	+		
49	Development of web applications for mobile devices	ZO	45	15		30			2	+	+		
Σ			405	135	15	165	90	0	0	30	30	16	2
SEMESTER VI													
50	Diploma seminar	ZO	30		30				3	+	+	+	
51	Cybersecurity	ZO	30	15		15			2	+			
52	Software engineering	E	60	30		30			3	+			
53	Object-oriented design of information systems / Neural networks	ZO	45	15		30			2	+	+		
54	Professional practice	ZO	480					480	18	+			
55	Designing mobile applications for iOS	E	45	15		30			2	+			
Σ			690	75	30	105	0	0	480	30	30	5	3
SEMESTER VII													
56	Diploma seminar	ZO	30		30				13	+	+	+	
57	Software testing	ZO	30	15		15			2	+			
58	Embedded systems	E	45	15		30			5	+			
59	Business applications of mobile technologies / Mobile technologies in computer networks	E	60	30		15	15		5	+	+		
60	Programming of network services	E	45	15			30		5	+	+		
Σ			210	75	30	60	45	0	0	30	30	23	13
TOTAL DURING STUDIES			3336	829	302	1050	195	0	960	210	184	66	22
				24,85%	75,15%				87,62%		31,43%	10,48%	