STUDY CURRICULUM FOR 2023/2024 ENROLLMENT
Field of study: COMPUTER SCIENCE
Major: Internet technologies and computer graphics

level of acquired education: first-cycle programme
educational profile: practical
mode of study: full-time programme

Lp.	Course	Form of credit	Number of hours	lecture	classes	lab classes/ foreign language course	project/practical classes	internship	ECTS	ECTS for practical courses	ECTS for elective courses
SEMESTER I											
1	Foreign language	graded credit	30			30			2		+
2	Physical education	graded credit	30		30				0		
3	Social competence/Interpersonal communication	graded credit	45	15	30				3		+
4	Mathematical analysis	exam	60	30	30				5		
5	Mathematics for IT specialists	graded credit	45	15	30				3		
6	Basics of computer science and computer systems architecture	exam	45	15		30			5	+	
7	Basics of programming	graded credit	60	30		30			4	+	
8	Computer graphics techniques	graded credit	45	15		30			3	+	
9	Internet technologies	exam	45	15		30			5	+	
10	OSH training	pass	4	4					0		
11	Library training	pass	2		2				0		
Σ			411	139	122	150	0	0	30	17	5
SEMESTER II											
12	Foreign language	graded credit	30			30			2		+
13	Physical Education	graded credit	30		30				0		
14	Social and professional issues in computing	graded credit	30	15		15			2	+	
15	Mathematics	exam	60	30	30				5		
16	Physics	graded credit	60	15	15	30			4	+	
17	Electronic measurement	graded credit	45	15		30			3	+	
18	Basics of object-oriented programming	exam	45	15		30			5	+	
19	Computer networks	graded credit	60	30		30			4	+	
20	Computer graphics	exam	45	15		30			5	+	
Σ			405	135	75	195	0	0	30	23	2
SEMESTER III											
21	Foreign language	graded credit	30			30			2		+
22	Probability calculus and statistics	graded credit	45	15		30			3	+	
23	Algorithms and data structures	exam	60	30		30			5	+	
24	Signal analysis and processing/Digital Signal Processing	graded credit	45	15		30			3	+	+
25	Basics of robotics/ Basics of automation	graded credit	45	15		30			4	+	+
26	Digital techniques and technologies	graded credit	45	15		30			2	+	
27	Object-oriented programming	graded credit	45	15		30			3	+	
28	Operating systems	exam	45	15		30			5	+	
29	User interface design	graded credit	45	15		30			3	+	+
Σ			405	135	0	270	0	0	30	28	12

Lp.	Course	Form of credit	Number of hours	lecture	classes	lab classes/ foreign language course	project/practical classes	internship	ECTS	ECTS for practical courses	ECTS for elective courses
SEMESTER IV											
30	Foreign language	exam	30			30			2		+
31	Basics of electrical engineering and electronics	graded credit	45	15		30			2	+	
32	Basics of databases	graded credit	45	15		30			2	+	
33	Introduction to web applications	graded credit	45	15		30			2	+	
34	Field-related internship	graded credit	480					480	18	+	+
35	Design graphics	exam	45	15		30			4	+	+
Σ			690	60	0	150	0	480	30	28	24
SEMESTER V											
36	Numerical methods	graded credit	45	15		30			3	+	
37	Modelling and computer simulation	graded credit	30	15		15			2	+	
38	Computer architecture	exam	60	30		30			5	+	
39	Basics of telecommunications/ Basics of ICT	graded credit	45	15			30		3	+	+
40	IT project / IT project implementation	graded credit	45				45		3	+	+
41	Databases	graded credit	45	15		30			3	+	
42	Multimedia techniques	graded credit	30	15		15			2	+	
43	Diploma seminar	graded credit	15		15				1	+	+
44	Web programming	exam	45	15		30			5	+	+
45	Content management systems	graded credit	45	15		30			3	+	+
Σ			405	135	15	180	75	0	30	30	15
SEMESTER VI											
46	Cyber security	graded credit	45	15		30			2	+	
47	Software engineering	exam	60	30		30			4	+	
48	Object-oriented design of information systems / Neural networks	graded credit	45	15		30			2	+	+
49	Diploma seminar	graded credit	15		15				1	+	+
50	Field-related internship	graded credit	480					480	18	+	+
51	Advanced web programming	exam	45	15		30			3	+	+
Σ			690	75	15	120	0	480	30	30	24
SEMESTER VII											
52	Software testing	graded credit	30	15		15			2	+	
53	Embedded systems	exam	45	15		30			5	+	
54	Internet of things	graded credit	45	15		30			3	+	
55	Diploma seminar	graded credit	30		30				12	+	+
56	Three-dimensional computer graphics	graded credit	45	15			30		3	+	+
57	Image processing	exam	45	15			30		5	+	+
Σ			240	75	30	75	60	0	30	30	20

IN TOTAL DURING STUDIES	3246	754	257	1140	135	960	210	186	102
		23,23%	76,77%					88,57%	48,57%

STUDY CURRICULUM FOR 2023/2024 ENROLLMENT
Field of study: Computer Science
Major: Computer networks and cyber security

level of acquired education: first-cycle programme
educational profile: practical
mode of study: full-time programme

Lp.	Course	Form of credit	Number of hours	lecture	classes	lab classes/ foreign language course	project/ practical classes	internship	ECTS	ECTS for practical courses	ECTS for elective courses
SEMESTER I											
1	Foreign language	graded credit	30			30			2		+
2	Physical education	graded credit	30		30				0		
3	Social competence/Interpersonal communication	graded credit	45	15	30				3		+
4	Mathematical analysis	exam	60	30	30				5		
5	Mathematics for IT specialists	graded credit	45	15	30				3		
6	Basics of computer science and computer systems architecture	exam	45	15		30			5	+	
7	Basics of programming	graded credit	60	30		30			4	+	
8	Computer graphics techniques	graded credit	45	15		30			3	+	
9	Internet technologies	exam	45	15		30			5	+	
10	OSH training	pass	4	4					0		
11	Library training	pass	2		2				0		
Σ			411	139	122	150	0	0	30	17	5
SEMESTER II											
12	Foreign language	graded credit	30			30			2		+
13	Physical education	graded credit	30		30				0		
14	Social and professional aspects of computing	graded credit	30	15		15			2	+	
15	Mathematics	exam	60	30	30				5		
16	Physics	graded credit	60	15	15	30			4	+	
17	Electronic measurement	graded credit	45	15		30			3	+	
18	Basics of object-oriented programming	exam	45	15		30			5	+	
19	Computer networks	graded credit	60	30		30			4	+	
20	Computer graphics	exam	45	15		30			5	+	
Σ			405	135	75	195	0	0	30	23	2
SEMESTER III											
21	Foreign language	graded credit	30			30			2		+
22	Probability calculus and statistics	graded credit	45	15		30			3	+	
23	Algorithms and data structures	exam	60	30		30			5	+	
24	Signal analysis and processing/Digital Signal Processing	graded credit	45	15		30			3	+	+
25	Basics of robotics/ Basics of automation	graded credit	45	15		30			4	+	+
26	Digital techniques and technologies	graded credit	45	15		30			2	+	
27	Object-oriented programming	graded credit	45	15		30			3	+	
28	Operating systems	exam	45	15		30			5	+	
29	Network operating systems	graded credit	45	15		30			3	+	+
Σ			405	135	0	270	0	0	30	28	12

Lp.	Course	Form of credit	Number of hours	lecture	classes	lab classes/ foreign language course	project/ practical classes	internship	ECTS	ECTS for practical courses	ECTS for elective courses
SEMESTER IV											
30	Foreign language	exam	30			30			2		+
31	Basics of electrical and electronic engineering	graded credit	45	15		30			2	+	
32	Basics of databases	graded credit	45	15		30			2	+	
33	Introduction to web applications	graded credit	45	15		30			2	+	
34	Field-related internship	graded credit	480					480	18	+	+
35	Cryptography	exam	45	15		30			4	+	+
Σ			690	60	0	150	0	480	30	28	24
SEMESTER V											
36	Numerical methods	graded credit	45	15		30			3	+	
37	Modelling and computer simulation	graded credit	30	15		15			2	+	
38	Computer architecture	exam	60	30		30			5	+	
39	Basics of telecommunications/ Basics of ICT	graded credit	45	15			30		3	+	+
40	IT project/ It project implementation	graded credit	45				45		3	+	+
41	Databases	graded credit	45	15		30			3	+	
42	Multimedia techniques	graded credit	30	15		15			2	+	
43	Diploma seminar	graded credit	15		15				1	+	+
44	Design and implementation of computer networks	exam	45	15		30			5	+	+
45	Security of web and mobile applications	graded credit	45	15		30			3	+	+
Σ			405	135	15	180	75	0	30	30	15
SEMESTER VI											
46	Cyber security	graded credit	45	15		30			2	+	
47	Software engineering	exam	60	30		30			4	+	
48	Object-oriented design of information systems / Neural networks	graded credit	45	15		30			2	+	+
49	Diploma seminar	graded credit	15		15				1	+	+
50	Field-related internship	graded credit	480					480	18	+	+
51	Computer forensics	exam	45	15		30			3	+	+
Σ			690	75	15	120	0	480	30	30	24
SEMESTER VII											
52	Software testing	graded credit	30	15		15			2	+	
53	Embedded systems	exam	45	15		30			5	+	
54	Internet of things	graded credit	45	15		30			3	+	
55	Diploma seminar	graded credit	30		30				12	+	+
56	Hardware aspects of cyber security	graded credit	45	15			30		3	+	+
57	Security in the cloud	exam	45	15			30		5	+	+
Σ			240	75	30	75	60	0	30	30	20
IN TOTAL DURING STUDIES			3246	754	257	1140	135	960	210	186	102
				23,23%	76,77%					88,57%	48,57%

STUDY CURRICULUM FOR 2023/2024 ENROLLMENT
Field of study: COMPUTER SCIENCE
Major: Programming and mobile technologies

level of acquired education: first-cycle programme
educational profile: practical
mode of study: full-time programme

Lp.	Course	Form of credit	Number of hours	lecture	classes	lab classes/ foreign language course	project/ practical classes	internship	ECTS	ECTS for practical courses	ECTS for elective courses	ECTS for distance learning courses
SEMESTER I												
1	Foreign language	graded credit	30			30			2		+	
2	Physical education	graded credit	30		30				0			
3	Social competence/Interpersonal communication	graded credit	45	15	30				3		+	
4	Mathematical analysis	exam	60	30	30				5			
5	Mathematics for IT specialists	graded credit	45	15	30				3			
6	Basics of computer science and computer systems architecture	exam	45	15		30			5	+		
7	Basics of programming	graded credit	60	30		30			4	+		
8	Computer graphics techniques	graded credit	45	15		30			3	+		
9	Internet technologies	exam	45	15		30			5	+		
10	OSH training	pass	4	4					0			
11	Library training	pass	2		2				0			
Σ			411	139	122	150	0	0	30	17	5	0
SEMESTER II												
12	Foreign language	graded credit	30			30			2		+	
13	Physical education	graded credit	30		30				0			
14	Social and professional aspects of computing	graded credit	30	15		15			2	+		
15	Mathematics	exam	60	30	30				5			
16	Physics	graded credit	60	15	15	30			4	+		
17	Electronic measurement	graded credit	45	15		30			3	+		
18	Basics of object-oriented programming	exam	45	15		30			5	+		
19	Computer networks	graded credit	60	30		30			4	+		
20	Computer graphics	exam	45	15		30			5	+		
Σ			405	135	75	195	0	0	30	23	2	0
SEMESTER III												
21	Foreign language	graded credit	30			30			2		+	
22	Probability calculus and statistics	graded credit	45	15		30			3	+		
23	Algorithms and data structures	exam	60	30		30			5	+		
24	Signal analysis and processing/Digital Signal Processing	graded credit	45	15		30			3	+	+	
25	Basics of robotics/ Basics of automation	graded credit	45	15		30			4	+	+	
26	Digital techniques and technologies	graded credit	45	15		30			2	+		
27	Object-oriented programming	graded credit	45	15		30			3	+		
28	Operating systems	exam	45	15		30			5	+		
29	Design of mobile applications in Android	graded credit	45	15		30			3	+	+	
Σ			405	135	0	270	0	0	30	28	12	0

Lp.	Course	Form of credit	Number of hours	lecture	classes	lab classes/ foreign language course	project/ practical classes	internship	ECTS	ECTS for practical courses	ECTS for elective courses	ECTS for distance learning courses
SEMESTER IV												
30	Foreign language	exam	30			30			2		+	
31	Basics of electrical engineering and electronics	graded credit	45	15		30			2	+		
32	Basics of databases	graded credit	45	15		30			2	+		
33	Introduction to web applications	graded credit	45	15		30			2	+		
34	Field-related internship	graded credit	480					480	18	+	+	
35	Advanced object-oriented programming	exam	45	15		30			4	+	+	
Σ			690	60	0	150	0	480	30	28	24	0
SEMESTER V												
36	Numerical methods	graded credit	45	15		30			3	+		
37	Modelling and computer simulation	graded credit	30	15		15			2	+		
38	Computer architecture	exam	60	30		30			5	+		
39	Basics of telecommunications/ Basics of ICT	graded credit	45	15			30		3	+	+	
40	IT project / IT project implementation	graded credit	45				45		3	+	+	
41	Databases	graded credit	45	15		30			3	+		
42	Multimedia techniques	graded credit	30	15		15			2	+		
43	Diploma seminar	graded credit	15		15				1	+	+	
44	Microcontroller programming	exam	45	15		30			5	+	+	
45	Design of web applications for mobile devices	graded credit	45	15		30			3	+	+	
Σ			405	135	15	180	75	0	30	30	15	0
SEMESTER VI												
46	Cyber security	graded credit	45	15		30			2	+		
47	Software engineering	exam	60	30		30			4	+		
48	Object-oriented design of information systems / Neural networks	graded credit	45	15		30			2	+	+	
49	Diploma seminar	graded credit	15		15				1	+	+	
50	Field-related internship	graded credit	480					480	18	+	+	
51	Programming of mobile applications for iOS	exam	45	15		30			3	+	+	
Σ			690	75	15	120	0	480	30	30	24	0
SEMESTER VII												
52	Software testing	graded credit	30	15		15			2	+		
53	Embedded systems	exam	45	15		30			5	+		
54	Internet of things	graded credit	45	15		30			3	+		
55	Diploma seminar	graded credit	30		30				12	+	+	
56	Mobile technologies in computer networks	graded credit	45	15			30		3	+	+	
57	Web services programming	exam	45	15			30		5	+	+	
Σ			240	75	30	75	60	0	30	30	20	0

IN TOTAL DURING STUDIES	3246	754	257	1140	135	960	210	186	102	0
		23,23%	76,77%					88,57%	48,57%	0,00%