



CURRICULUM

Professional orientation: **Communications and Computer Engineering**

Program: **Software And Internet Technologies**

Professional qualification: **Computer Engineer**

Educational and qualificational degree: **Bachelor**

Form of study: **Full - Time**

Term of study: **4 years / 8 semesters**

No	Subject Name	Types of term control				Semester auditorium load					Unsupervised load	Total work hours	ECTS credits
		E	PA	CP	A	L	S	L	CP CPR	Total			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	English				1		30			30	30	60	2
2	Basic Mathematics	1				30		30		60	115	175	7
3	Web Design	1				15		30		45	130	175	7
4	Programming Fundamentals	1				30		30		60	115	175	7
5	Computer Electronics	1				15		30		45	105	150	6
6	Elective Subject				1						30	30	1
6a	Specialized Sport Activities, part 1				1						30	30	1
6b	Sport and Social Adaptation, part 1				1						30	30	1
Total for the 1 semester:		4			2	90	30	120		240	525	765	30
7	Mathematics for Computing	2				30		30		60	115	175	7
8	Algorithms and Data Structures	2				30		30		60	115	175	7
9	Digital Logic	2				30		30		60	115	175	7
10	Elective Subject		2			15		30		45	130	175	7
10a	Programming Fundamentals, part 2		2			15		30		45	130	175	7
10b	Graphic Design		2			15		30		45	130	175	7
11	Elective Subject				2						30	30	1
11a	Specialized Sport Activities, part 2				2						30	30	1
11b	Sport and Social Adaptation, part 2				2						30	30	1
12	Practical Training, part 1				2						30	30	1
Total for the 2 semester:		3	1		2	105		120		225	535	760	30
13	Discrete Structures	3				30	30			60	65	125	5
14	Data Management		3			30		30		60	65	125	5
15	Object-Oriented Programming Fundamentals (C++)	3				30		30		60	115	175	7
16	Computer Organization and Computer Architectures	3				30		30		60	115	175	7
17	System Analysis	3				30		30		60	90	150	6
18	Elective Subject				3						30	30	1
18a	Specialized Sport Activities, part 3				3						30	30	1
18b	Sports Management, part 1				3						30	30	1
Total for the 3 semester:		4	1		1	150	30	120		300	480	780	31

No	Subject Name	Types of term control				Semester auditorium load					Unsupervised load	Total work hours	ECTS credits
		E	PA	CP	A	L	S	L	CP CPR	Total			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
19	Advanced Object-Oriented Programming (Java)	4				30		30		60	115	175	7
20	WEB Applications	4				30		30		60	65	125	5
21	Microprocessors	4				15		30		45	80	125	5
22	Programming Systems	4				30		30		60	90	150	6
23	Graphic Systems		4			30		30		60	65	125	5
24	Object-Oriented Programming Fundamentals (C++), project			4					30	30	30	60	2
25	Elective Subject				4						30	30	1
25a	Specialized Sport Activities, part 4				4						30	30	1
25b	Sports Management, part 2				4						30	30	1
26	Practical Training, part 2				4						30	30	1
Total for the 4 semester:		4	1	1	2	135		150	30	315	505	820	32
27	Operating Systems Principles	5				30		30		60	115	175	7
28	Software Requirements and Specifications		5			30		30		60	65	125	5
29	Systems with Data Bases	5				30		30		60	115	175	7
30	Computer Networks and Internet	5				30		30		60	65	125	5
31	Software Production Technology	5				30		30		60	90	150	6
32	Elective Subject			5					30	30	30	60	2
32a	Programming Systems, project			5					30	30	30	60	2
32b	Advanced Object-Oriented Programming (Java), project			5					30	30	30	60	2
32c	Microprocessors, project			5					30	30	30	60	2
32d	Graphic Systems, project			5					30	30	30	60	2
Total for the 5 semester:		4	1	1		150		150	30	330	480	810	32
33	System Programming	6				30		30		60	90	150	6
34	Internet Servers and Services	6				30		30		60	65	125	5
35	Software Projects Management		6			30		30		60	65	125	5
36	Programming for Mobile Internet Devices	6				30		30		60	90	150	6
37	Internet Technologies	6				30		30		60	115	175	7
38	Elective Subject			6					30	30	30	60	2
38a	Operating Systems Principles, project			6					30	30	30	60	2
38b	Computer Networks and Internet, project			6					30	30	30	60	2
38c	Software Production Technology, project			6					30	30	30	60	2
38d	Systems with Data Bases, project			6					30	30	30	60	2
39	Specialized Practice				6						150	150	5
Total for the 6 semester:		4	1	1	1	150		150	30	330	605	935	36
40	Network Administration	7				30		30		60	90	150	6
41	Language Processors	7				30		30		60	115	175	7
42	Artificial Intelligence	7				30		30		60	115	175	7
43	User Interface Design	7				30		30		60	90	150	6
44	Elective Subject		7			30		30		60	90	150	6
44a	Internet Information Retrieval		7			30		30		60	90	150	6
44b	Information Assurance and Security		7			30		30		60	90	150	6
45	Practical Training, part 3				7						30	30	1
Total for the 7 semester:		4	1		1	150		150		300	530	830	33
46	Elective Subject	8				30		30		60	90	150	6
46a	Office Technologies	8				30		30		60	90	150	6
46b	Distributed Processing in Internet	8				30		30		60	90	150	6

No	Subject Name	Types of term control				Semester auditorium load					Unsupervised load	Total work hours	ECTS credits
		E	PA	CP	A	L	S	L	CP CPR	Total			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
46c	Renewable Energy Sources - Principles and Software Solutions	8				30		30		60	90	150	6
46d	Economics and Management	8				30		30		60	90	150	6
46e	Multimedia Systems and Technologies	8				30		30		60	90	150	6
46f	Object-Oriented Applications	8				30		30		60	90	150	6
46g	Script Languages	8				30		30		60	90	150	6
46h	Information Systems	8				30		30		60	90	150	6
46i	Cloud Technologies	8				30		30		60	90	150	6
46j	Evolution and Quality of Software	8				30		30		60	90	150	6
46k	E-commerce	8				30		30		60	90	150	6
46l	Economics of Software Production	8				30		30		60	90	150	6
46m	Cryptography and Data Protection	8				30		30		60	90	150	6
46n	Business Intelligence Systems	8				30		30		60	90	150	6
46o	Information Management	8				30		30		60	90	150	6
47	Elective Subject	8				30		30		60	90	150	6
47a	Office Technologies	8				30		30		60	90	150	6
47b	Distributed Processing in Internet	8				30		30		60	90	150	6
47c	Renewable Energy Sources - Principles and Software Solutions	8				30		30		60	90	150	6
47d	Economics and Management	8				30		30		60	90	150	6
47f	Object-Oriented Applications	8				30		30		60	90	150	6
47g	Script Languages	8				30		30		60	90	150	6
47i	Cloud Technologies	8				30		30		60	90	150	6
47j	Evolution and Quality of Software	8				30		30		60	90	150	6
47k	E-commerce	8				30		30		60	90	150	6
47l	Economics of Software Production	8				30		30		60	90	150	6
47m	Cryptography and Data Protection	8				30		30		60	90	150	6
47n	Business Intelligence Systems	8				30		30		60	90	150	6
47o	Information Management	8				30		30		60	90	150	6
48	Elective Subject	8				30		30		60	90	150	6
48a	Office Technologies	8				30		30		60	90	150	6
48b	Distributed Processing in Internet	8				30		30		60	90	150	6
48c	Renewable Energy Sources - Principles and Software Solutions	8				30		30		60	90	150	6
48d	Economics and Management	8				30		30		60	90	150	6
48e	Multimedia Systems and Technologies	8				30		30		60	90	150	6
48f	Object-Oriented Applications	8				30		30		60	90	150	6
48g	Script Languages	8				30		30		60	90	150	6
48h	Information Systems	8				30		30		60	90	150	6
48i	Cloud Technologies	8				30		30		60	90	150	6
48j	Evolution and Quality of Software	8				30		30		60	90	150	6
48k	E-commerce	8				30		30		60	90	150	6
48l	Economics of Software Production	8				30		30		60	90	150	6
48m	Cryptography and Data Protection	8				30		30		60	90	150	6
48n	Business Intelligence Systems	8				30		30		60	90	150	6
48o	Information Management	8				30		30		60	90	150	6
49	Preliminary Graduation Work			8					30	30	30	60	2
Total for the 8 semester:		3		1		90		90	30	210	300	510	20

No	Subject Name	Types of term control				Semester auditorium load					Unsuper vised load	Total work hours	ECTS credits
		E	PA	CP	A	L	S	L	CP CPR	Total			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Total for all courses of education:		30	6	4	9	1020	60	1050	120	2250	3960	6210	244

Facultative subjects

No	Subject Name	Types of term control				Semester auditorium load incl:					Unsuper-vised load	Total work hours	ECTS credits
		E	PA	CP	A	L	S	L	CP CPR	Total			
1	2	3	4	5	6	7	8	9	10	11	12	13	14

Types of graduation	Semester	Unsupervised load	ECTS credits
Preparation of Diploma Thesis / Preparation for State Examination	8	300	10
Defence of Diploma Thesis / State Examination	8		

Accepted from AU with

Protocol No 10 / 25.04.2016

Modified with Protocols No 11 / 06.06.2016, No 19 / 27.02.2017, No 41 / 22.04.2019, No 44 / 01.07.2019

Valid from the 2016 / 2017 academic year.

The weekly allocation of the classes is fixed according to the "Structure of the Learning Process" Academic Board adopted for the current academic year.

Head of Department SIT:

/ Assoc. Prof. PhD Bozhikova V. /

Dean of Faculty FCA:

/ Assoc. Prof. PhD Nikolov N. /