



CURRICULUM

Professional orientation: **Communications and Computer Engineering**

Program: **Information and Communication Technologies**

Professional qualification: **Telecommunication Technologies 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	Mathematics, part 1	1				15	45			60	135	195	7
2	Introduction to the Speciality		1			15		30		45	135	180	6
3	Materials in Electrical Engineering	1				30		30		60	120	180	6
4	Programming Fundamentals		1			15	15	30		60	120	180	6
5	English, part 1				1		30			30	60	90	3
6	Practical Training, part 1				1						30	30	1
7	Elective Subject				1						30	30	1
7a	Specialized Sport Activities, part 1				1						30	30	1
7b	Sport and Social Adaptation, part 1				1						30	30	1
Total for the 1 semester:		2	2		3	75	90	90		255	630	885	30
8	Mathematics, part 2	2				30	30			60	105	165	6
9	Circuit and Field Theory	2				30		30		60	135	195	7
10	Information and Signals Theory	2				30		30		60	135	195	7
11	Electrical Measurements		2			30		30		60	90	150	5
12	English, part 2		2				30			30	60	90	3
13	Practical Training, part 2				2						30	30	1
14	Elective Subject				2						30	30	1
14a	Specialized Sport Activities, part 2				2						30	30	1
14b	Sport and Social Adaptation, part 2				2						30	30	1
Total for the 2 semester:		3	2		2	120	60	90		270	585	855	30
15	Analog Circuits	3				30		30		60	150	210	8
16	Computer Aided Modelling in Telecommunication Systems	3				30		30		60	135	195	7
17	Communication Equipment Design and Reliability		3			30		30		60	135	195	7
18	Computer Communications and Internet Technologies		3			30		30		60	135	195	7
19	Elective Subject				3						30	30	1
19a	Specialized Sport Activities, part 3				3						30	30	1
19b	Sports Management, part 1				3						30	30	1
Total for the 3 semester:		2	2		1	120		120		240	585	825	30
20	Digital Circuits Design	4				30		30		60	120	180	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
21	Information Encryption and Compression	4				30		30		60	120	180	6
22	Communication Circuits	4				30		30		60	120	180	6
23	Radio Waves and Radio Communication Lines	4				30		30		60	120	180	6
24	Specialized Computer Power Supplies		4			30		30		60	120	180	6
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
Total for the 4 semester:		4	1		1	150		150		300	630	930	31
26	Antennas and Microwave Devices in Telecommunications	5				30		15		45	135	180	6
27	Microprocessor Systems	5				30		30		60	120	180	6
28	Data Acquisition Systems	5				15		30		45	135	180	6
29	Information Networks and Terminals	5				30		30		60	120	180	6
30	Elective Subject		5			30		30		60	120	180	6
30a	Android-Multimedia Application		5			30		30		60	120	180	6
30b	Labview Design		5			30		30		60	120	180	6
Total for the 5 semester:		4	1			135		135		270	630	900	30
31	Radio Communications	6				30		30		60	120	180	6
32	Telecommunication Networks	6				30		30		60	120	180	6
33	Video Technologies	6				30		30		60	120	180	6
34	Optoelectronics and Optical Communications		6			30		15		45	105	150	5
35	Switching in Communication Networks	6				30		30		60	120	180	6
36	Elective Subject			6					30	30	30	60	2
36a	Video Technologies, project			6					30	30	30	60	2
36b	Telecommunication Networks, project			6					30	30	30	60	2
36c	Radio Communications, project			6					30	30	30	60	2
36d	Antennas and Microwave Devices in Telecommunications, project			6					30	30	30	60	2
37	Specialized Practice				6						90	90	3
Total for the 6 semester:		4	1	1	1	150		135	30	315	705	1020	34
38	Digital Signal Processing	7				30		30		60	120	180	6
39	Audio Systems	7				30		30		60	120	180	6
40	Digital Transmission Systems		7			30		30		60	120	180	6
41	Mobile Communication Systems	7				30		30		60	120	180	6
42	Satellite Communications		7			30		30		60	120	180	6
43	Elective Subject			7					30	30	30	60	2
43a	Satellite Communications, project			7					30	30	30	60	2
43b	Digital Transmission Systems, project			7					30	30	30	60	2
43c	Optoelectronics and Optical Communications, project			7					30	30	30	60	2
43d	Mobile Communication Systems, project			7					30	30	30	60	2
Total for the 7 semester:		3	2	1		150		150	30	330	630	960	32
44	Computer Communications	8				30		30		60	90	150	5
45	Computer Networks and Information Security	8				30		30		60	90	150	5
46	Technical Safety				8	15		15		30	60	90	3
47	Elective Subject		8			30		30		60	90	150	5
47a	Radionavigation and Radiolocation		8			30		30		60	90	150	5
47b	Electromagnetic Compatibility in Telecommunications		8			30		30		60	90	150	5
48	Elective Subject		8			30		30		60	90	150	5

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
48a	Video Systems and Computer Animation		8			30		30		60	90	150	5
48b	Fiber Optic Cable Lines and Systems		8			30		30		60	90	150	5
Total for the 8 semester:		2	2		1	135		135		270	420	690	23
Total for all courses of education:		24	13	2	9	1035	150	1005	60	2250	4815	7065	240

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 20 / 27.03.2017

Valid from the 2017 / 2018 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 CET:

/ Assoc. Prof. PhD Kostov N. /

Dean of Faculty FCA:

/ Assoc. Prof. PhD Nikolov N. /