

Burgas State University "Prof. Dr. Assen Zlatarov"



Approved!
Rector:

(Prof. Dr. Hristo Bozov, MD)

Studies plan for the acquisition of higher education in the specialty of Computer Systems and Technologies Degree of education and qualification: Bachelor

Area of higher education: 5. Technical Sciences
Professional field: 5.3. Communication and Computer Technology
Professional qualification: Computer engineer
Duration: 4 years (8 semesters)
Form: Part-time

Approved by the FC of the FTS. Prot. No. *25/20.03.2025 г.*
Approved by the AC. Protocol No. *33/27.03.2025 г.*

I. TIME DISTRIBUTION

C o u r s e	Curricular engagement weeks	Exam sessions weeks	Practices:			State exam weeks	Vacations weeks	All weeks
			Educational	On-the-job	Specialized			
			weeks	weeks	weeks			
I.	8	29				15	52	
II.	8	29				15	52	
III.	8	29		2		13	52	
IV.	8	29				9	52	

II. PARAMETERS OF THE STUDIES PLAN

1. Curricular activities, hrs	(C)	1119	%
Lectures	(L)	461	41,2
Seminar exercises	(S)	113	10,1
Practical exercises	(P)	545	48,7
Physical education and sports		0	hrs

Practices	count	hours
Educational (ep)	0	0
On-the-job (op)	0	0
Specialized (sp)	0	0

2. Disciplines	count	hours	%
Compulsory (C)	0	0	0,0
Optional (O)	0	0	0,0
Facultative (F)	2	30	100,0

Extracurricular activities, hrs (E) 6081
Curricular/Extracurricular = 18,4

	count	hours
Course projects (cp)	0	0
Course works (cw)	0	0

3. Forms of Control (FC):	Exams (e)	0	Ongoing Assessment (oa)	0	Credits (c)	0
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4. Completion Form: State Examination

5. Semestral classes schedule: Approved annually by the Academic Council.

III. Plan of the Educational Process

First Semester												FC	Credits
No	Discipline	Type	L hrs	S type hrs	P type hrs	A hrs	I hrs	A/E %					
1.	Higher Mathematics I Part	C	15	15		30	150	20,0	E	6			
2.	Electrical Engineering and Electrical Measurements	C	23		23	46	224	20,5	E	9			
3.	Introduction to Programming	C	15		15	30	150	20,0	E	6			
4.	Fundamentals of Engineering Design	C	8	cw	23	31	149	20,8	E	6			
5.	English Language	C		15		15	75	20,0	E	3			
Total:			61	30	61	152	748	20,3		30			
Second Semester												FC	Credits
No	Discipline	Type	L hrs	S type hrs	P type hrs	A hrs	I hrs	A/E %					
1.	Higher Mathematics II Part	C	15	15		30	150	20,0	E	6			
2.	Object-Oriented Programming - Part 1	C	15		15	30	150	20,0	E	6			
3.	Signals and Systems	C	15	cw	15	30	150	20,0	E	6			
4.	Optional Discipline from List 1	O	8	cw	8	16	104	15,4	E	4			
5.	Computer Systems	C	8		8	16	104	15,4	E	4			
6.	English Language	C		15		15	105	14,3	E	4			
Total:			61	30	46	137	763	18,0		30			
Third Semester												FC	Credits
No	Discipline	Type	L hrs	S type hrs	P type hrs	A hrs	I hrs	A/E %					
1.	Digital Circuit Design	C	15	15		30	180	16,7	E	7			
2.	Optional Practice from List 6	O		cp	23	23	157	14,6	E	6			
3.	Logic Circuit Analysis and Synthesis	C	15		15	30	180	16,7	E	7			
4.	Object-Oriented Programming - Part 2	C	15		15	30	180	16,7	E	7			
5.	English Language	C		15		15	75	20,0	E	3			
Total:			45	30	53	128	772	16,6		30			
Fourth Semester												FC	Credits
No	Discipline	Type	L hrs	S type hrs	P type hrs	A hrs	I hrs	A/E %					
1.	Algorithm Synthesis and Analysis	C	15		15	30	150	20,0	E	6			
2.	Computer Architectures	C	15		15	30	150	20,0	E	6			
3.	Discrete Structures	C	15		15	30	150	20,0	E	6			
4.	Databases	C	15		15	30	150	20,0	E	6			
5.	Specialized Practice	C		cp	sp	15	15	75	20,0	E	3		
6.	English Language	C		15		15	75	20,0	E	3			
Total:			60	15	75	150	750	20,0		30			
Fifth Semester												FC	Credits
No	Discipline	Type	L hrs	S type hrs	P type hrs	A hrs	I hrs	A/E %					
1.	Software Design	C	15		15	30	150	20,0	E	6			
2.	Programming Languages	C	15	cp	8	15	38	172	22,1	E	7		
3.	Computer Networks	C	15		15	30	150	20,0	E	6			
4.	Graphics and Visualization	C	15		15	30	150	20,0	E	6			
5.	Databases (Practice)	C		cp	ep	23	23	127	18,1	E	5		
Total:			60	8	83	151	749	20,2		30			
Sixth Semester												FC	Credits
No	Discipline	Type	L hrs	S type hrs	P type hrs	A hrs	I hrs	A/E %					
1.	Cybersecurity	C	15		15	30	150	20,0	E	6			
2.	Internet of Things (IoT)	C	15		15	30	150	20,0	E	6			
3.	Operating Systems	C	15		15	30	150	20,0	E	6			
4.	Optional Practice from List 5	O		cp	23	23	127	18,1	E	5			
5.	Embedded Systems	C	15		15	30	180	16,7	E	7			
6.	Optional Discipline from List 7	F							E				
Total:			60		83	143	757	18,9		30			
Seventh Semester												FC	Credits
No	Discipline	Type	L hrs	S type hrs	P type hrs	A hrs	I hrs	A/E %					
1.	Computer Peripherals	C	15		15	30	150	20,0	E	6			
2.	Educational and Industrial Practice	C		cp	ep	23	23	97	23,7	E	4		
3.	Information Systems	C	15		15	30	150	20,0	E	6			
4.	Artificial Intelligence	C	15		15	30	150	20,0	E	6			
5.	Parallel and Distributed Systems	C	8		15	23	127	18,1	E	5			
6.	Technical Safety and Disaster Management	C	8		8	16	74	21,6	E	3			
Total:			61		91	152	748	20,3		30			

Eight Semester			L		S		P		A	I	A/E	FC	Credits
No	Discipline	Type	hrs	type	hrs	type	hrs	hrs	hrs	%			
1.	Industrial Process Management	C	8				15	23	97	23,7	E	4	
2.	Optional Discipline from List 2	O	15				8	23	97	23,7	E	4	
3.	Optional Discipline from List 3	O	15				15	30	150	20,0	E	6	
4.	Optional Discipline from List 4	O	15				15	30	150	20,0	E	6	
5.	Facultative Discipline from List 8	F									E		
6.	State Examination	C							300		E	10	
Total:			53				53	106	794	13,4		30	

Lists of optional and facultative disciplines

List 1	
1.	Electronics
2.	Materials in Electronics
3.	

List 2	
1.	Economics
2.	Management and Leadership
3.	Project Management

List 3	
1.	Cryptographic Methods for Protection
2.	Server-side Web Programming
3.	Scripting and Functional Programming
4.	

List 4	
1.	Wireless Networks
2.	Signal Processors
3.	
4.	

List 5	
1	Computer Networks
2	Synthesis and Analysis of Algorithms
3	
4	

List 6	
1.	Object-Oriented Programming
2.	Computer Systems
3.	Web Design

List 7	
1	Management and Leadership
2	Project Management
3	
4	

List 8	
1.	Economics
2.	Virtual and Augmented Reality
3.	

Note 1. The Bulgarian language exam for foreign students is counted as an exam in a foreign language.

Note 2. The facultative discipline from List 7 is studied with a workload of 8 hours of seminar exercises and awards 2 credits. The total workload of 8 hours is outside the maximum workload for obtaining a professional qualification. The course ends with an ongoing assessment.

Note 3. The facultative discipline from List 8 is studied with a workload of 8 hours of lectures and 8 hours of exercises and awards 2 credits. The total workload of 30 hours is outside the maximum workload for obtaining a professional qualification. The course ends with an ongoing assessment.

IV. Notes on the changes made to this studies plan

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Approved by the Academic Council (AC) № *33/27.03.2025 r.*

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