

"Prof. Dr. Assen Zlatarov" University - Burgas

Approved!
Rector



(Prof. M. Mitkova)

Higher Education Curriculum for the studies of Artificial Intelligence and Virtual Reality and the acquisition of the academic degree of Master of Science

Higher education area: 5. Technical Sciences
Professional filed: 5.3 Communication and computer technics
Professional qualification: Master Engineer
3 semesters after Bachelor degree in 5.3.Communication and computer technics

Duration: 2 years
Form of education: Part-time

Accepted at FS on _____ Protocol № _____
Accepted at AC on _____ Protocol № _____

I. TIMETABLE

Year	Curricular activity	Exam sessions	Practice:			State exam	Holidays	Total
			Studies	Studies in Industry	Specialization			
			weeks	weeks	weeks			
I.	30	11				11	52	
II.	15	5			2	18	44	
III.								

II. CURRICULUM PARAMETERS

1. Curricular activity, hrs.	(C)	418	%
Lectures	(L)	218	52.2
Seminar classes	(S)	38	9.1
Practical classes	(P)	162	38.8
Physical Education and Sports		0	hours

Practice	count	hours
Studies (st)	0	0
Studies in Industry (si)	0	0
Specialization (sp)	1	30

2. Subjects	count	hours	%
Compulsory (c)	13	349	80.6
Selectable (s)	3	69	15.9
Facultative (f)	1	15	3.5

Extracurricular activity, hrs. (E) 2282 hrs.
Curricular/Extracurricular ratio (C/E) = 18.3 %

	count	hours
Course projects (cp)	1	16
Course works (cw)	0	0

3. **Assessment (AM):** Exams (e) 18 In-class assessment (i) 0 Participation signature (p) 0

4. **Form of graduation:** Master Thesis

5. **Schedule of Classes:** Approved annually by the Academic Council.

III. PLAN

First semester													
№	Subject	Type	L		S		P		C	E	C/E	AM	Credits
			hrs.	type	hrs.	type	hrs.	hrs.	hrs.	%			
1.	Programming with Microsoft .NET Framework	c	15	cp	8		8	31	119	26.1	e	5	
2.	Internet Databases	c	15				15	30	120	25.0	e	5	
3.	UNIX/LINUX	c	15				15	30	120	25.0	e	5	
4.	Selectable subject from List 2	s	15				8	23	97	23.7	e	4	
5.	Software Technologies	c	8				15	23	97	23.7	e	4	
6.	3D Design	c	15				8	23	97	23.7	e	4	
7.	Selectable subject from List 1	s	15				8	23	67	34.3	e	3	
8.													
9.													
10.													
Total:			98		8		77	183	717	25.5		30	

Second semester													
№	Subject	Type	L		S		P		C	E	C/E	AM	Credits
			hrs.	type	hrs.	type	hrs.	hrs.	hrs.	%			
1.	Fuzzy Sets	c	15				8	23	67	34.3	e	3	
2.	Network Administration	c	15				15	30	120	25.0	e	5	
3.	Augmented Reality	c	15				8	23	67	34.3	e	3	
4.	Selectable subject from List 3	s	15				8	23	67	34.3	e	3	
5.	Neural Networks	c	15				15	30	120	25.0	e	5	
6.	Computer Vision	c	15				8	23	67	34.3	e	3	
7.	Systems with Intelligent Behaviour	c	15				8	23	67	34.3	e	3	
8.	Virtual Reality	c	15				15	30	120	25.0	e	5	
9.													
10.													
Total:			120				85	205	695	29.5		30	

Third semester													
№	Subject	Type	L		S		P		C	E	C/E	AM	Credits
			hrs.	type	hrs.	type	hrs.	hrs.	hrs.	%			
1.	Pre-Thesis Practice	c		sp	30			30	420	7.1	e	15	
2.	Facultative subject from list 4	f									e		
3.													
4.													
5.													
6.													
7.													
8.													
9.													
10.	Master Thesis								450		e	15	
Total:					30			30	870	3.4		30	

Lists of selectable and facultative subjects

List 1	
1.	Data Management
2.	Algorithms for data mining
3.	
4.	
5.	

List 2	
1.	Data mining software
2.	Intelligent agents
3.	
4.	
5.	

List 3	
1.	Business information systems
2.	Java-based technologies
3.	
4.	
5.	

List 4	
1.	Publishing system TEX
2.	
3.	
4.	
5.	

Note 1. The facultative subject from List 4 is being studied with a schedule of 15 hours as 2 credits are awarded. The total workload of 30 hours for a discipline is outside the maximum work schedule for acquiring a professional qualification. The training in the discipline ends with an in-class assessment.

Accepted at FS Protocol №	Accepted at AC Protocol №	16/28.07.2020	
Accepted at FS Protocol №	Accepted at AC Protocol №		