

**Information technologies: Structure of study program by semesters and years of study**

No.	Subject Code	Course title	Sem.	Number of classes per week	ECTS	
<b>FIRST YEAR</b>						
1	20.OP0004	Business informatics	1	5	8	
2	20.OS0002	Programming methods	1	5	8	
3	20.OP0001	Quantitative methods	1	5	8	
4	20.OP0003	Psychology	1	5	6	
5	20.OP0037	Web design	2	5	8	
6	20.OS0001	Algorithms and data structures	2	5	8	
7	20.OS0003	Basics of computer technology	2	5	8	
8	20.OP0007	English language 1	2	5	6	
				Total ECTS	60	
<b>SECOND YEAR</b>						
9	20.OP0009	Marketing	3	5	8	
10	20.OSO100	Graphic Design	3	5	8	
11	20.OP0008	Management	3	5	8	
12	20.OP0011	English language 2	3	5	6	
13	20.OP0034	Databases	4	5	8	
14	20.OS0I01	Elective course 1 (choose 1 of 3)	4	5	8	
		20.OP0005	Modern bussines communication	4	5	8
		20.ON0037	Statistics	4	5	8
		20.OP0027	German language 1	4	5	8
15	20.OS0I02	Elective course 2 (choose 1 of 2)	4	5	6	
		20.OS0021	Object-oriented programming	4	5	6
		20.OS0200	Marketing services	4	5	6
16	20.OS0I03	Elective course 3 (choose 1 of 2)	4	5	8	
		20.OS0006	Distributed computer services	4	5	8
		20.OP2003	Creativity and innovation: a psychological and economic approach	4	5	8
				Total ECTS	60	
<b>THIRD YEAR</b>						
17	20.OP0017	Internet as a business environment	5	5	8	
18	20.OS0009	Web platforms	5	5	6	
19	20.OS0I04	Elective course 4 (choose 1 of 3)	5	5	8	
		20.OP0002	Economy	5	5	8
		20.OP0041	Labor law	5	5	8
		20.OS0026	German language 2	5	5	8
20	20.OS0I05	Elective course 5 (choose 1 of 2)	5	5	8	
		20.OP0020	Entrepreneurship	5	5	8
		20.OS0027	Big data	5	5	8
21	20.OP0016	English language 3	6	5	6	
22	20.OS0008	Social networks	6	5	8	
23	20.OS0011	Modern computer networks	6	5	8	

24	20.OS0I06	Изборни предмет 6 (бира се 1 од 2) Elective course 6 (choose 1 of 2)		6	5	8
		20.OP0035	Project planning	6	5	8
		20.OP0006	Finances	6	5	8
					Total ECTS	60
<b>FOURTH YEAR</b>						
25	20.OS0014	Information systems engineering		7	5	8
26	20.OS0015	Design and development of user interfaces		7	5	8
27	20.OSO101	Artificial intelligence		7	5	8
28	20.OS0I07	Elective course 7 (choose 1 of 2)		7	5	6
		20.OS0031	Elective practical research in information systems	7	5	6
		20.OP2009	Elective practical research in web technologies	7	5	6
29	20.OS0017	Software project management		8	6	6
30	20.OSO102	Development of web applications		8	7	8
31	20.OS0019	Professional practice		8	0	3
32	20.OS0I08	Elective course 8 (choose 1 of 2)		8	5	6
		20.OS0032	Business simulations - Information technologies	8	5	6
		20.OP0044	Business simulations - Internet marketing	8	5	6
33	20.OSO110	Final thesis course		8	2	4
34	20.OSO109	Final thesis		8	0	3
					Total ECTS	60