

# CURRICULUM

## STUDY PROGRAM: INFORMATION TECHNOLOGY ENGINEERING

**240 ECTS POINTS**

### FIRST YEAR

No.	Subject	Subject code	Status	ECTS	L	E	Name and surname of the professor
<b>I SEMESTER</b>							
1	<b>Informatics</b>	BLC.002	Obligatory	6	30	30	Milica Tepšić, PhD
2	<b>Mathematics 1</b>	BLC.011	Obligatory	6	30	30	Negovan Stamenković, PhD
3	<b>English language 1</b>	BLC.032	Obligatory	6	30	45	Vesna Đurović, MA
4	<b>Methodology of scientific research</b>	BLC.020	Elective	6	30	30	Nenad Novaković, PhD
5	<b>Management</b>	BLC.001	Elective	6	30	30	Svetlana Dušanić-Gačić, PhD
<b>II SEMESTER</b>							
6	<b>Computer architecture</b>	BLC.050	Obligatory	6	30	30	Boris Damjanović, PhD
7	<b>Introduction to information technologies</b>	BLC.008	Obligatory	6	30	30	Nikola Novaković, PhD
8	<b>English language 2</b>	BLC.033	Obligatory	6	30	45	Vesna Đurović, MA
9	<b>Introduction to operating systems</b>	BLC.055	Elective	6	30	30	Nikola Novaković, PhD
10	<b>Statistics</b>	BLC.004	Obligatory	6	30	30	Zorana Agić, PhD

### SECOND YEAR

No.	Subject	Subject code	Status	ECTS	L	E	Name and surname of the professor
<b>III SEMESTER</b>							
1	<b>Artificial intelligence</b>	BLC.225	Obligatory	6	30	30	Davor Radivojević, PhD
2	<b>Mathematics 2</b>	BLC.028	Obligatory	6	30	30	Negovan Stamenković, PhD
2	<b>English language 3</b>	BLC.034	Obligatory	6	30	45	Vesna Đurović, MA
4	<b>Computer networks</b>	BLC.056	Elective	6	30	30	Davor Radivojević, PhD
5	<b>Information systems</b>	BLC.021	Elective	6	30	30	Milica Tepšić, PhD
<b>IV SEMESTER</b>							
6	<b>Databases 1</b>	BLC.051	Obligatory	6	30	30	Boris Damjanović, PhD
7	<b>Basics of programming</b>	BLC.027	Obligatory	6	30	30	Boris Damjanović, PhD
8	<b>English language 4</b>	BLC.035	Obligatory	6	30	45	Vesna Đurović, MA
9	<b>Web design</b>	BLC.031	Elective	6	30	30	Nikola Novaković, PhD
10	<b>Protection of information systems</b>	BLC.057	Elective	6	30	30	Milica Tepšić, PhD

### THIRD YEAR

No.	Subject	Subject code	Status	ECTS	L	E	Name and surname of the professor
<b>V SEMESTER</b>							
1	<b>Programming</b>	BLC.052	Obligatory	8	30	60	Boris Damjanović, PhD
2	<b>Mathematics 3</b>	BLC.053	Obligatory	8	30	60	Negovan Stamenković, PhD
2	<b>Databases 2</b>	BLC.059	Elective	8	30	60	Boris Damjanović, PhD
4	<b>Video games</b>	BLC.058	Elective	6	30	30	Irena Parović, PhD
<b>VI SEMESTER</b>							
5	<b>Electrical engineering and electronics</b>	BLC.044	Obligatory	8	30	60	Davor Radivojević, PhD
6	<b>Algorithms and data structure</b>	BLC.054	Obligatory	8	30	60	Boris Damjanović, PhD
7	<b>Software engineering</b>	BLC.060	Elective	8	30	60	Davor Radivojević, PhD
8	<b>Human resources management</b>	BLC.013	Elective	6	30	30	Svetlana Dušanić-Gačić, PhD

### FOURTH YEAR

No.	Subject	Subject code	Status	ECTS	L	E	Name and surname of the professor
<b>VII SEMESTER</b>							
1	<b>Internet programming</b>	BLC.061	Elective	8	30	60	Boris Damjanović, PhD
2	<b>Internet marketing</b>	BLC.038	Elective	8	30	60	Mirjana Milovanović, PhD
3	<b>Wireless networks</b>	BLC.062	Elective	8	30	60	Davor Radivojević, PhD
4	<b>English language 5</b>	BLC.036	Obligatory	6	30	45	Vesna Đurović, MA
<b>VIII SEMESTER</b>							
5	<b>Modern software architectures</b>	BLC.063	Elective	8	30	60	Davor Radivojević, PhD
6	<b>Student's practice</b>	BLC.093		12			
7	<b>Final paper</b>	BLC.094		10			

### ELECTIVE COURSES

LIST OF ELECTIVE COURSES 6 ECTS						
No.	Elective course (Subject)	Subject code	P	L	E	
1	<b>Methodology of scientific research</b>	BLC.020	6	30	30	
2	<b>Business informatics</b>	BLC.009	6	30	30	
3	<b>Management</b>	BLC.001	6	30	30	
4	<b>Statistics</b>	BLC.004	6	30	30	
5	<b>Introduction to operating systems</b>	BLC.005	6	30	30	
6	<b>Computer networks</b>	BLC.056	6	30	30	
7	<b>Information systems</b>	BLC.021	6	30	30	
8	<b>Web design</b>	BLC.031	6	30	30	
9	<b>Protection of information systems</b>	BLC.057	6	30	30	
10	<b>Video games</b>	BLC.058	6	30	30	

11	<b>Human resources management</b>	BLC.013	6	30	30
12	<b>Human computer interaction</b>	BLC.099	6	30	30
13	<b>Quantitative methods in computer science</b>	BLC.100	6	30	30
14	<b>Internet programming CSS&amp;HTML</b>	BLC.101	6	30	30
15	<b>Software quality</b>	BLC.102	6	30	30
16	<b>Business intelligence</b>	BLC.025	6	30	30

<b>LIST OF ELECTIVE COURSES 8 ECTS</b>					
<b>No.</b>	<b>Elective course (Subject)</b>	<b>Subject code</b>	<b>P</b>	<b>L</b>	<b>E</b>
1	<b>Databases 2</b>	BLC.059	8	30	60
2	<b>Software engineering</b>	BLC.060	8	30	60
3	<b>Internet programming</b>	BLC.061	8	30	60
4	<b>Internet marketing</b>	BLC.038	8	30	60
5	<b>Wireless networks</b>	BLC.062	8	30	60
6	<b>Operational research</b>	BLC.103	8	30	60
7	<b>Modern software architectures</b>	BLC.063	8	30	60
8	<b>Electronic business</b>	BLC.104	8	30	60
9	<b>Advanced programming techniques</b>	BLC.105	8	30	60
10	<b>Multimedia</b>	BLC.064	8	30	60
11	<b>Computer systems</b>	BLC.106	8	30	60
12	<b>Operating systems</b>	BLC.107	8	30	60
13	<b>Internet programming - Java</b>	BLC.108	8	30	60
14	<b>Computer communications</b>	BLC.109	8	30	60
15	<b>Management systems</b>	BLC.110	8	30	60
16	<b>Web services</b>	BLC.111	8	30	60
17	<b>Expert systems</b>	BLC.112	8	30	60
18	<b>Information technologies</b>	BLC.113	8	30	60
19	<b>Information technologies in business</b>	BLC.114	8	30	60
20	<b>Modelling of business processes</b>	BLC.115	8	30	60
21	<b>Information systems design</b>	BLC.116	8	30	60