

CURRICULUM - INFORMATICS

STUDY PROGRAM: **INFORMATION TECHNOLOGY ENGINEERING - 240 ECTS**

TITLE: **GRADUATE ENGINEER IN INFORMATICS**

FIRST YEAR											
NO.	SUBJECT	CODE	STATUS	TEACHING LOAD		COEF.	STUDENT'S LOAD		TOTAL	ECTS	FIRST NAME, LAST NAME OF THE PROFESSOR
				L	E		L	E			
I SEMESTER											
1.	Management	BLC-001	obligatory	30	30	2	60	60	180	6	prof. dr Svetlana Dušanić-Gačić
2.	Informatics	BLC-002	obligatory	30	30	2	60	60	180	6	prof. dr Nikola Novaković
3.	Mathematics 1	BLC-004	obligatory	45	30	2	60	90	225	7	prof. dr Negovan Stamenković
4.	Elective subject 1 (one subject is chosen)										
	Digital strategies of business	BLC-014	elective	30	30	2	60	60	180	6	prof. dr Mladen Miroslavljević
	Video games	BLC-058								prof. dr Irena Parović	
5.	Elective subject 2 (one subject is chosen)										
	English language 1	BLC-005	elective	30	15	2	60	30	135	5	prof. mr Vesna Đurović
	Foreign language 1	BLC-006								-	
Total I semester				165	135	-	330	270	900	30	
				300			600				
				900 = 30 ECTS x 30 classes							
II SEMESTER											
6.	Statistics	BLC-007	obligatory	45	30	2	90	60	225	7	prof. dr Zorana Agić
7.	Information technologies	BLC-051	obligatory	30	30	2	60	60	180	6	prof. dr Nikola Novaković
8.	Architecture of the computer	BLC-059	obligatory	30	30	2	60	60	180	6	prof. dr Boris Damjanović
9.	Operative systems	BLC-060	obligatory	30	30	2	60	60	180	6	prof. dr Nikola Novaković
10.	Elective subject 3 (one subject is chosen)										
	English language 2	BLC-011	elective	30	15	2	60	30	135	5	prof. mr Vesna Đurović
	Foreign language 2	BLC-012								-	
Total II semester				165	135	-	330	270	900	30	
				300			600				
				900 = 30 ECTS x 30 classes							
TOTAL FIRST YEAR				1800 = 60 ECTS x 30 classes					1800	60	

STUDY PROGRAM: INFORMATION TECHNOLOGY ENGINEERING - 240 ECTS

SECOND YEAR											
NO.	SUBJECT	CODE	STATUS	TEACHING LOAD		COEF.	STUDENT'S LOAD		TOTAL	ECTS	FIRST NAME, LAST NAME OF THE PROFESSOR
				L	E		L	E			
III SEMESTER											
11.	Mathematics 2	BLC-061	obligatory	45	30	2	90	60	225	7	prof. dr Negovan Stamenković
12.	Web design	BLC-046	obligatory	30	30	2	60	60	180	6	prof. dr Nikola Novaković
13.	Computer networks	BLC-062	obligatory	30	15	2	60	30	135	5	doc. dr Davor Radivojević
14.	Artificial intelligence	BLC-016	obligatory	45	30	2	90	60	225	7	doc. dr Davor Radivojević
15.	Elective subject 4 (one subject is chosen)										
	English language 3	BLC-017	elective	30	15	2	60	30	135	5	prof. mr Vesna Đurović
	Foreign language 3	BLC-018									-
Total III semester				180	120	-	360	240	900	30	
				300			600				
				900 = 30 ECTS x 30 classes							
IV SEMESTER											
16.	Information systems	BLC-037	obligatory	45	30	2	90	60	225	7	prof. dr Nikola Novaković
17.	Basics of programming	BLC-052	obligatory	30	30	2	60	60	180	6	prof. dr Boris Damjanović
18.	Databases 1	BLC-063	obligatory	30	30	2	60	60	180	6	prof. dr Boris Damjanović
19.	Elective subject 5 (one subject is chosen)										
	Media literacy	BLC-022	elective	30	30	2	60	60	180	6	prof. dr Slavica Išaretović
	Financial literacy	BLC-023									prof. dr Zorana Agić
20.	Elective subject 6 (one subject is chosen)										
	English language 4	BLC-024	elective	30	15	2	60	30	135	5	prof. mr Vesna Đurović
	Foreign language 4	BLC-025									-
Total IV semester				165	135	-	330	270	900	30	
				300			600				
				900 = 30 ECTS x 30 classes							
TOTAL SECOND YEAR				1800 = 60 ECTS x 30 classes					1800	60	

STUDY PROGRAM: INFORMATION TECHNOLOGY ENGINEERING - 240 ECTS

THIRD YEAR											
NO.	SUBJECT	CODE	STATUS	TEACHING LOAD		COEF.	STUDENT'S LOAD		TOTAL	ECTS	FIRST NAME, LAST NAME OF THE PROFESSOR
				L	E		L	E			
V SEMESTER											
21.	Programming	BLC-064	obligatory	60	15	2	120	30	225	8	prof. dr Boris Damjanović
22.	Mathematics 3	BLC-065	obligatory	45	30	2	90	60	225	7	prof. dr Negovan Stamenković
23.	Databases 2	BLC-066	obligatory	60	15	2	120	30	225	8	prof. dr Boris Damjanović
24.	Elective subject 7 (one subject is chosen)										
	Digital marketing	BLC-040	elective	45	30	2	90	60	225	7	prof. dr Mirjana Milovanović
	Digital content and tools	BLC-041									doc. dr Aleksandar Babić
Total V semester				210	90	-	420	180	900	30	
				300			600				
				900 = 30 ECTS x 30 classes							
VI SEMESTER											
25.	Electrical engineering and electronics	BLC-053	obligatory	60	30	2	120	60	270	9	doc. dr Davor Radivojević
26.	Algorithm and data structures	BLC-067	obligatory	60	15	2	120	30	225	8	prof. dr Boris Damjanović
27.	Software engineering	BLC-068	obligatory	45	30	2	90	60	225	7	doc. dr Davor Radivojević
28.	Elective subject 8 (one subject is chosen)										
	Human resource management	BLC-020	elective	30	30	2	60	60	180	6	prof. dr Svetlana Dušanić-Gačić
	Labor law	BLC-010									doc. dr Željko Petrović
Total VI semester				165	135	-	330	270	900	30	
				300			600				
				900 = 30 ECTS x 30 classes							
TOTAL THIRD YER				1800 = 60 ECTS x 30 classes					1800	60	

STUDY PROGRAM: INFORMATION TECHNOLOGY ENGINEERING - 240 ECTS

FOURTH YEAR											
NO.	SUBJECT	CODE	STATUS	TEACHING LOAD		COEF.	STUDENT LOAD		TOTAL	ECTS	FIRST NAME, LAST NAME OF THE PROFESSOR
				L	E		P	V			
VII SEMESTER											
29.	Internet programming	BLC-069	obligatory	60	30	2	120	60	270	9	prof. dr Boris Damjanović
30.	Wireless networks	BLC-070	obligatory	45	30	2	90	60	225	7	doc. dr Davor Radivojević
31.	Elective subject 9 (one subject is chosen)										
	Digital communications	BLC-071	elective	60	30	2	120	60	270	9	doc. dr Aleksandar Babić
	Graphic design	BLC-072									doc. dr Ljubica Janjetović
32.	Elective subject 10 (one subject is chosen)										
	English language 5	BLC-042	elective	30	15	2	60	30	135	5	prof. mr Vesna Đurović
	Foreign language 5	BLC-043									-
Total VII semester				195	105	-	390	210	900	30	
				300			600				
				900 = 30 ECTS x 30 classes							
VIII SEMESTER											
33.	Methodology of scientific research	BLC-044	obligatory	30	30	2	60	60	180	6	prof. dr Nenad Novaković
34.	Contemporary software architectures	BLC-073	obligatory	60	30	2	120	60	270	9	doc. dr Davor Radivojević
35.	Student's practice 1	BLC-098	-	-	60	2	-	120	180	6	-
36.	Final paper	BLC-100	-	-	90	2	-	180	270	9	-
Total VIII semester				90	210	-	180	420	900	30	
				300			600				
				900 = 30 ECTS x 30 classes							
TOTAL FOURTH YEAR				1800 = 60 ECTS x 30 CLASSES					1800	60	

On the study program *Informatics*, study field *Information technology engineering*, a student enrolls and passes 24 obligatory subjects (total 166 ECTS), 1 elective subject with 9 ECTS points (total 9 ECTS), 1 elective subject with 7 ECTS points (total 7 ECTS), 3 elective subjects with 6 ECTS points (total 18 ECTS) and 5 elective subjects with 5 ECTS points (total 25 ECTS points). Student can choose a foreign language that he/she will attend and pass – the faculty organizes classes for English language. According to the shown interest, classes for German or Russian language could be organized. After acquiring 225 ECTS points through exams, 6 ECTS points collected through student's practice, the student writes final paper that is worth 9 ECTS points. That is in total 240 ECTS points collected on this study field. After the public presentation of the final paper, the student acquires the title: **graduate engineer of informatics**.

STUDY PROGRAM: **INFORMATICS- 180 ECTS**

TITLE: **BACHELOR OF COMPUTER SCIENCE**

FIRST YEAR											
NO.	SUBJECT	CODE	STATUS	TECHING LOAD		COEF.	STUDENT'SLOAD		TOTAL	ECTS	FIRST NAME, LAST NAME OF THE PROFESSOR
				L	E		L	E			
I SEMESTER											
1.	Management	BLC-001	obligatory	30	30	2	60	60	180	6	prof. dr Svetlana Dušanić-Gačić
2.	Informatics	BLC-002	obligatory	30	30	2	60	60	180	6	prof. dr Nikola Novaković
3.	Mathematics 1	BLC-004	obligatory	45	30	2	60	90	225	7	prof. dr Negovan Stamenković
4.	Elective subject 1 (one subject is chosen)										
	Digital strategies of business	BLC-014	elective	30	30	2	60	60	180	6	prof. dr Mladen Miroslavljević
	Video games	BLC-058									prof. dr Irena Parović
5.	Elective subject 2 (one subject is chosen)										
	English language 1	BLC-005	elective	30	15	2	60	30	135	5	prof. mr Vesna Đurović
	Foreign language 1	BLC-006									-
Total I semester				165	135	-	330	270	900	30	
				300			600				
				900 = 30 ECTS x 30 classes							
II SEMESTER											
6.	Statistics	BLC-007	obligatory	45	30	2	90	60	225	7	prof. dr Zorana Agić
7.	Information technologies	BLC-051	obligatory	30	30	2	60	60	180	6	prof. dr Nikola Novaković
8.	Architecture of the computer	BLC-059	obligatory	30	30	2	60	60	180	6	prof. dr Boris Damjanović
9.	Operative systems	BLC-060	obligatory	30	30	2	60	60	180	6	prof. dr Nikola Novaković
10.	Elective subject 3 (one subject is chosen)										
	English language 2	BLC-011	elective	30	15	2	60	30	135	5	prof. mr Vesna Đurović
	Foreign language 2	BLC-012									-
Total II semester				165	135	-	330	270	900	30	
				300			600				
				900 = 30 ECTS x 30 classes							
TOTAL FIRST YEAR				1800 = 60 ECTS x 30 classes					1800	60	

STUDY PROGRAM: INFORMATICS - 180 ECTS

SECOND YEAR											
NO.	SUBJECT	CODE	STATUS	TEACHING LOAD		COEF.	STUDENT'S LOAD		TOTAL	ECTS	FIRST NAME, LAST NAME OF THE PROFESSOR
				L	E		L	E			
III SEMESTER											
11.	Mathematics 2	BLC-061	obligatory	45	30	2	90	60	225	7	prof. dr Negovan Stamenković
12.	Web design	BLC-046	obligatory	30	30	2	60	60	180	6	prof. dr Nikola Novaković
13.	Computer networks	BLC-062	obligatory	30	15	2	60	30	135	5	doc. dr Davor Radivojević
14.	Artificial intelligence	BLC-016	obligatory	45	30	2	90	60	225	7	doc. dr Davor Radivojević
15.	Elective subject 4 (one subject is chosen)										
	English language 3	BLC-017	elective	30	15	2	60	30	135	5	prof. mr Vesna Đurović
	Foreign language 3	BLC-018									-
Total III semester				180	120	-	360	240	900	30	
				300			600				
				900 = 30 ECTS x 30 classes							
IV SEMESTER											
16.	Information systems	BLC-037	obligatory	45	30	2	90	60	225	7	prof. dr Nikola Novaković
17.	Basics of programming	BLC-052	obligatory	30	30	2	60	60	180	6	prof. dr Boris Damjanović
18.	Databases 1	BLC-063	obligatory	30	30	2	60	60	180	6	prof. dr Boris Damjanović
19.	Elective subject 5 (one subject is chosen)										
	Media literacy	BLC-022	elective	30	30	2	60	60	180	6	prof. dr Slavica Išaretović
	Financial literacy	BLC-023									prof. dr Zorana Agić
20.	Elective subject 6 (one subject is chosen)										
	English language 4	BLC-024	elective	30	15	2	60	30	135	5	prof. mr Vesna Đurović
	Foreign language 4	BLC-025									-
Total IV semester				165	135	-	330	270	900	30	
				300			600				
				900 = 30 ECTS x 30 classes							
TOTAL SECOND YEAR				1800 = 60 ECTS x 30 classes					1800	60	

STUDY PROGRAM: INFORMATICS - 180 ECTS

THIRD YEAR											
NO.	SUBJECT	CODE	STATUS	TEACHING LOAD		KOEFS.	STUDENT'S LOAD		TOTAL	ECTS	FIRST NAME, LAST NAME OF THE PORFESSOR
				L	E		L	E			
V SEMESTER											
21.	Programming	BLC-064	obligatory	60	15	2	120	30	225	8	prof. dr Boris Damjanović
22.	Mathematics 3	BLC-065	obligatory	45	30	2	90	60	225	7	prof. dr Negovan Stamenković
23.	Databases 2	BLC-066	obligatory	60	15	2	120	30	225	8	prof. dr Boris Damjanović
24.	Elective subject 7 (one subject is chosen)										
	Digital marketing	BLC-040	elective	45	30	2	90	60	225	7	prof. dr Mirjana Milovanović
	Digital content and tools	BLC-041									doc. dr Aleksandar Babić
Total V semester				210	90	-	420	180	900	30	
				300			600				
				900 = 30 ECTS x 30 classes							
VI SEMESTER											
25.	Electrical engineering and electronics	BLC-053	obligatory	60	30	2	120	60	270	9	doc. dr Davor Radivojević
26.	Algorithm and data structures	BLC-067	obligatory	60	15	2	120	30	225	8	prof. dr Boris Damjanović
27.	Software engineering	BLC-068	obligatory	45	30	2	90	60	225	7	doc. dr Davor Radivojević
28.	Elective subject 8 (one subject is chosen)										
	Human resource management	BLC-020	elective	30	30	2	60	60	180	6	prof. dr Svetlana Dušanić-Gačić
	Labor law	BLC-010									doc. dr Željko Petrović
Total VI semester				165	135	-	330	270	900	30	
				300			600				
				900 = 30 ECTS x 30 classes							
TOTAL THIRD YER				1800 = 60 ECTS x 30 classes					1800	60	

On the study program *Informatics*, study field *Informatics*, a student enrolls and passes 20 obligatory subjects (total 148 ECTS points), 2 elective subjects with 6 ECTS (total 12 ECTS) and 4 elective subjects with 5 ECTS (total 20 ECTS) points. A student can choose the foreign language that he/she will attend and pass — the faculty organizes lectures in English language and according to the interest, lectures in German or Russian language could be organized. After acquiring 180 ECTS points through exams the student acquires the title: **bachelor of computer science**.