ROMANIA
MINISTRY OF NATIONAL EDUCATION
'VASILE ALECSANDRI' UNIVERSITY OF BACAU
Faculty of Engineering
Calea Mărăşeşti, Nr. 157, Bacău, 600115, Tel./Fax +40 234 580170
http://inginerie.ub.ro; e-mail: decaning@ub.ro

Field of study: **Computers and Information technology**
Study programme: Information technololy

2018-2019 academic year

CURRICULUM

1st year of study

No	Subject	Number of ECTS credits	Examination form	Semester
1.	Mathematical anlysis	4	WO	1
2.	Linear algebra, analytic and differential geometry	4	WO	1
3.	Chemistry	4	W	1
4.	Computer programming and programming languages 1	9	W	1
5.	Communication ethics	2	O	1
8.	Physical education and sports 1	1	P/F	1
9.	Environmental protection	4	O	1
10.	English for engineering 1/French for engineering 1	2	O	1
11.	Special mathematics	4	WO	2
12.	Physics	4	WO	2
13.	Computer graphics	4	O	2
14.	Computer programming and programming languages 2	7	W	2
15.	Computer networks	4	W	2
16.	Data structures and algorithms	4	W	2
17.	Physical education and sports 2	1	P/F	2
18.	English for engineering 2/French for engineering 2	2	O	2

W- written exam
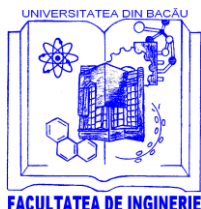O – oral exam
WO- written and oral exam
P/F- pass/fail

Dean,   Head of department
Prof. Ph.D. Eng. Valentin Zichil   Prof. Ph.D. Eng. George Culea

F. 334.09/Ed.01

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2nd year of study

No	Subject	Number of ECTS credits	Examination form	Semester
1.	Electrotechnics	4	WO	1
2.	Computer graphics 2	3	O	1
3.	Digital electronics	7	W	1
4.	Local computer networks	4	WO	1
5.	Parallel and distributed algorithms	5	O	1
6.	Logic and functional programming	4	W	1
7.	English for engineering 3 / French for engineering 3	2	O	1
8.	Physical education and sports 3	1	P/F	1
9.	Logic design	4	W	2
10.	Computer organization and architecture	4	W	2
11.	Modeling and simulation	3	O	2
12.	Algorithm design	3	WO	2
13.	Object-oriented programming	5	WO	2
14.	Systems theory	3	W	2
15.	English for engineering 4 / French for engineering 4	2	O	2
16.	General economics	2	O	2
17.	Specialized training (3 weeks x 30 hours)	4	O	2

W- written exam
O – oral exam
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P/F- pass/fail

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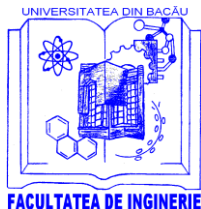
Field of study: Computers and Information technology
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2018-2019 academic year

CURRICULUM

3rd year of study

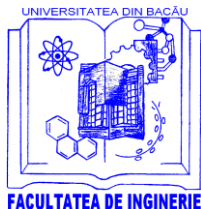| No	Subject	Number of ECTS credits	Examination form	Semester
1.	Virtual instrumentation	5	WO	1
2.	Operating systems	5	O	1
3.	Databases	4	W	1
4.	Software engineering	4	O	1
5.	Design with microprocessors	4	WO	1
6.	Man-computer interaction	4	O	1
7.	Artificial intelligence	4	W	1
8.	Graphics processing	4	O	2
9.	Human resource management	3	O	2
10.	Cryptography and information security	5	WO	2
11.	Database administration	4	W	2
12.	Design with microprocessors	3	O	2
13.	Computer system architecture	4	WO	2
14.	Manufacturing systems engineering	3	W	2
15.	Specialized training (3 weeks x 30 hours)	4	O	2

W- written exam
O – oral exam
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P/F- pass/fail

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4th year of study

No	Subject	Number of ECTS credits	Examination form	Semester
1.	Distribution systems	4	W	1
2.	Instruments for programme development	4	W	1
3.	Formal languages and automata	4	WO	1
4.	Industrial informatics	4	WO	1
5.	WEB programming	4	O	1
6.	Software design	3	O	1
7.	Software reliability	3	O	1
8.	Intelligent systems	4	W	1
9.	Form identification systems	4	W	2
10.	Project management	2	O	2
11.	Integrated applications for companies	3	WO	2
12.	Process control systems	4	W	2
13.	Ergonomics	3	WO	2
14.	Preparing and writing the Bachelor final project	4	O	2
15.	Entrepreneurship	3	O	2
16.	Training for preparing and writing the Bachelor final project (2 weeks x 30 hours)	7	O	2

W- written exam
O – oral exam
WO- written and oral exam
P/F- pass/fail

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