

“VASILE ALECSANDRI” UNIVERSITY OF BACAU

Faculty of Engineering

Calea Mărășești, Nr. 157, Bacău, 600115, Tel./Fax +40 234 580170

<http://inginerie.ub.ro>; e-mail: decaning@ub.ro



Domeniul: **Computers and Information technology**
 Specializarea: **Information technololy**

2023-2024 academic year

CURRICULUM

1st year of study

No.	Discipline	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	2	C	1
8.	Physical education and sports 1	1	P/F	1
9.	Environmental protection	4	C	1
10.	English for engineering 1/French for engineering 1	2	C	1
11.	Special mathematics	4	WO	2
12.	Physics	4	WO	2
13.	Computer graphics 1	4	C	2
14.	Computer programming and programming languages 2	7	C	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	C	2

W- exam

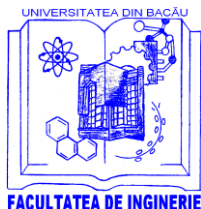
WO- written and oral exam

C- Colloquium

P/F- pass/fail

Dean,
 Assoc.Prof. Ph.D. Eng. Panainte-Lehăduș Mirela

Head of department,
 Prof. Ph.D. Eng. Culea George



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CURRICULUM

2nd year of study

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

W- exam

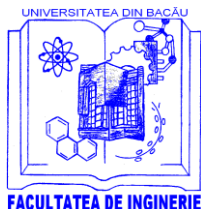
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CURRICULUM

3rd year of study

No.	Discipline	Number of ECTS credits	Examination form	Semester
1.	Virtual instrumentation	5	WO	1
2.	Operating systems	4	C	1
3.	Databases	4	E	1
4.	Software engineering	4	C	1
5.	Design with microprocessors	4	WO	1
6.	Human-computer interaction	4	C	1
7.	Artificial intelligence	5	E	1
8.	Graphics processing	4	C	2
9.	Formal languages and translators	3	E	2
10.	Human resource management	3	C	2
11.	Cryptography and information security	3	WO	2
12.	Database administration	4	E	2
13.	Design with microprocessors	3	C	2
14.	Computer system architecture	3	WO	2
15.	Electronic measurements, sensors and transducers	3	E	2
16.	Specialized practice (3 weeks x 30 hours)	4	C	2

W- exam

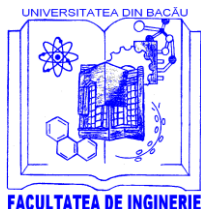
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4th year of study

No	Discipline	Number of ECTS credits	Examination form	Semester
1.	Distributed systems	4	E	1
2.	Instruments for programme development	4	E	1
3.	Fault tolerant systems	4	WO	1
4.	Industrial informatics	4	WO	1
5.	WEB programming	4	E	1
6.	Software design	3	C	1
7.	Software reliability	3	C	1
8.	Intelligent systems	4	E	1
9.	Pattern recognition systems	3	E	2
10.	Software project management	2	C	2
11.	IoT and Cloud architectures	1	C	2
12.	Integrated enterprise applications	3	WO	2
13.	Embedded systems	4	WO	2
14.	Ergonomics	4	C	2
15.	Preparing and writing the Bachelor final project	4	C	2
16.	Entrepreneurship	2	C	2
17.	Practice for preparing and writing the Bachelor final project (2 weeks x 30 hours)	7	C	2

W- exam

WO- written and oral exam

C- Colloquium

P/F- pass/fail

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