



"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



Field: Mechanical Engineering
Study programme: Equipment for Industrial Processes

2023-2024 academic year

CURRICULUM

1st year of study

No	Subject	Number of ECTS credits	Examination form	Semester
1.	Mathematical analysis	4	WO	1
2.	Linear algebra, analytic and differential geometry	4	WO	1
3.	Descriptive geometry	5	O	1
4.	Chemistry	4	W	1
5.	Computer programming and programming languages 1	5	W	1
6.	Communication	2	O	1
7.	Materials science and engineering	3	W	1
8.	Physical education and sports 1	1	P/F	1
9.	English for engineering 1 /French for engineering 1	2	O	1
10.	Special mathematics	4	WO	2
11.	Physics	4	WO	2
12.	Technical drawing and Infographics 1	4	O	2
13.	Computer programming and programming languages 2	5	O	2
14.	Mechanics	4	W	2
15.	Materials technology	4	W	2
16.	Physical education and sports 2	1	P/F	2
17.	English for engineering 2 /French for engineering 2	2	O	2
18.	General economics	2	O	2

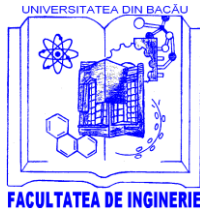
W- written exam;

O – oral exam;

WO- written and oral exam;

P/F- pass/fail;

Dean, Programme Coordinator, Head of Department,
 Assoc. Prof. Ph.D. Eng. Mirela Panainte-Lehadus Prof. Ph.D. Eng. Luminita Bibire Assoc. Prof. Ph.D. Eng. Claudia Tomozei



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2nd year of study

No	Subject	Number of ECTS credits	Examination form	Semester
1	Environmental protection	4	O	1
2.	Strength of materials 1	5	WO	1
3.	Mechanisms 1	4	W	1
4.	Tolerance and dimensional control	5	WO	1
5.	Thermotechnics	5	O	1
6.	Electrotechnics and electronics	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.	Strength of materials 2	3	WO	2
10.	Mechanisms 2	3	W	2
11.	Mechanical vibration	3	WO	2
12.	Machining and machine tools	3	W	2
13.	Technical drawing and Infographics 2	3	O	2
14.	Hydraulic and pneumatic actuation systems	3	O	2
15.	Mechanical design using specialized software	3	W	2
16.	English for engineering 4 /French for engineering 4	2	O	2
17.	Machine elements 1	3	W	2
18.	Training (3 weeks x 30 hours)	4	O	2

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3rd year of study

No	Subject	Number of ECTS credits	Examination form	Semester
1	Machine elements 2	5	W	1
2.	Equipment for industrial processes	3	O	1
3.	Occupational safety and health	4	O	1
4.	Process equipment design 1	4	WO	1
5.	Technologies and equipment for primary processing	4	W	1
6.	Lifting and transporting equipment	3	O	1
7.	Computer-assisted design	3	O	1
8.	Raw materials in process industries	4	O	1
9.	Process equipment design 2	5	WO	2
10.	Machinery and equipment for process industry 1	6	WO	2
11.	Fluid mechanics	5	W	2
12.	Modeling and simulation of industrial processes	5	W	2
13.	Finite element analysis	5	O	2
14.	Specialized training (3 weeks x 30 hours)	4	O	2

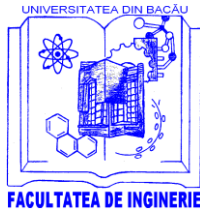
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4th year of study

No	Subject	Number of ECTS credits	Examination form	Semester
1	Unit operations and apparatus in process industries 1	4	WO	1
2.	Machinery and equipment for process industry 2	5	WO	1
3.	Process technologies	4	W	1
4.	Quality engineering	4	W	1
5.	Water demand and water resources quality	4	W	1
6.	Equipment and installations for prevention of environmental pollution	3	O	1
7.	Technical creativity	3	O	1
8.	General maintenance	3	O	1
9.	Unit operations and apparatus in process industries 2	4	WO	2
10.	Machinery and equipment for process industry 3	5	WO	2
11.	Machines for process installations	3	O	2
12.	Management	3	O	2
13.	User safety and protection in the digital environment	1	O	2
14.	Preparing the Bachelor final project	4	O	2
15.	Ergonomics	4	O	2
16.	Training for Bachelor final project (2 weeks x 30 hours)	6	O	2

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