

Field of study: **Engineering and management**

Study programme: **Economic engineering in the mechanical field, Engineering and business management**

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	4	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	Technical English 1 / Technical French 1	2	O	1
10	Special mathematics	4	WO	2
11	Physics	4	WO	2
12	Technical drawing	4	O	2
13	Computer programming and programming languages 2	4	O	2
14	Fundamentals of economics	4	O	2
15	Materials technology	4	W	2
16	Mechanics	3	W	2
17	Physical education and sports 2	1	P/F	2
18	Technical English 2 / Technical French 3	2	O	2

W- written exam

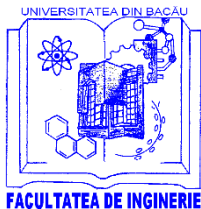
WO- written and oral exam

O – oral exam

P/F- pass/fail

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

Head of Department  
Assoc. Prof. PhD.Eng. Catalin Drob



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## CURRICULUM 2nd year of study

No	Subject	Number of ECTS credits	Examination form	Semester
1	Environmental management	4	O	1
2	Thermotechnics	4	O	1
3	Strength of materials 1	5	WO	1
4	Mechanisms	4	W	1
5	Physical education and sports 3	1	P/F	1
6	Tolerance and dimensional control	6	WO	1
7	Accounting	4	W	1
8	Electronics	4	O	1
9	Technical English 3 / Technical French 3	2	O	1
10	Marketing	3	W	2
11	Strength of materials 2	4	WO	2
12	Fluid mechanics	3	W	2
13	Mechanical vibration	4	WO	2
14	Infographics	3	O	2
15	Human resource management	3	O	2
16	Technical English 4 / Technical French 4	2	O	2
17	Machine elements	4	W	2
18	Annual training (5 weeks x 30 hours)	4	O	2

W- written exam

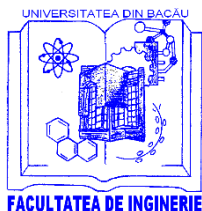
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### CURRICULUM 3rd year of study

No.	Subject	Number of ECTS credits	Examination form	Semester
1	Electrotechnics and electronics	4	O	1
2	Fundamentals of management	4	W	1
3	Quality management	4	O	1
4	Labor and community relations	3	W	1
5	Logistics management	3	W	1
6	Industrial robots	5	W	1
7	Business law	4	O	1
8	Virtual instrumentation	3	W	1
9	Finance and credit	3	W	2
10	Modeling and simulation of manufacturing process	3	W	2
11	Industrial and intellectual property law	3	O	2
12	Production management	4	WO	2
13	Fundamentals of automation	3	W	
14	Machine tools	4	WO	2
15	Hydro-pneumatic systems	3	O	
16	The finances of economic agents	3	O	2
17	Training in the economic field (3 weeks x 30 hours)	4	O	2

W- written exam

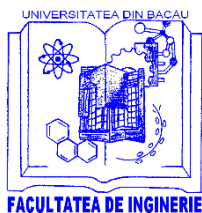
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## CURRICULUM 4th year of study

No	Subject	Number of ECTS credits	Examination form	Semester
1	Computer-assisted design	5	O	1
2	Maintenance management	3	O	1
3	Technical creativity	3	O	1
4	Small and medium-sized enterprises management	3	W	1
5	Plastics manufacturing processes	3	W	1
6	Manufacturing technology	4	W	1
7	Investment management	3	W	1
8	Enterprise management	3	W	1
9	Design and optimization in engineering and management	2	O	1
10	Ergonomics	4	W	2
11	Project management	3	O	2
12	Entrepreneurship	2	O	2
13	Product assemblage	4	W	2
14	Preparing and writing the Bachelor final project	4	O	2
15	Design with finite element method	5	O	2
16	Safety and protection of users in the digital environment	1	O	2
17	Management information systems	3	W	2
18	Training for preparing and writing the Bachelor final project (2 weeks x 30 hours)	4	O	2

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