

Field of study: **Engineering and management**

Study programme: **Economic engineering in the mechanical field**

2022-2023 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	4	W	1
6	Ethics in engineering research	1	O	1
7	Materials science and engineering	5	W	1
8	Physical education and sports 1	1	P/F	1
9	Managerial communication	2	O	1
10	English for engineering 1 / French for engineering 1	1	O	1
11	Special mathematics	4	WO	2
12	Physics	4	WO	2
13	Technical drawing and Infographics 1	4	O	2
14	Computer programming and programming languages 2	5	O	2
15	Fundamentals of economics	4	O	2
16	Materials technology	4	W	2
17	Mechanics	3	W	2
18	Physical education and sports 2	1	P/F	2
19	English for engineering 2 / French for engineering 2	1	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-Leh du

Head of Department
Senior lecturer 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	3	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	4	WO	1
7	Accounting	4	W	1
8	Electronics	4	O	1
9	English for engineering 3 / French for engineering 3	1	O	1
10	Marketing	3	W	2
11	Strength of materials 2	3	WO	2
12	Fluid mechanics	3	W	2
13	Mechanical vibration	4	WO	2
14	Technical drawings and Infographics 2	3	O	2
15	Human resource management	4	O	2
16	English for engineering 4 / French for engineering 4	2	O	2
17	Machine elements	5	W	2
18	Annual training (3 weeks x 30 hours)	4	O	2

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O – oral exam

P/F- pass/fail

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CURRICULUM
3rd year of study

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

W- written exam

WO- written and oral exam

O – oral exam

P/F- pass/fail

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CURRICULUM
4th year of study

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

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WO- written and oral exam

O – oral exam

P/F- pass/fail

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