

MANUFACTURING ENGINEERING

DEGREE TYPE UPON GRADUATION

Bachelor's Degree

DURATION

4 years (8 semesters)

TEACHING LANGUAGE

Romanian

ECTS POINTS

240

PROGRAMME DESCRIPTION

The *Manufacturing Engineering* study program prepares research, design and production engineers to operate in any industrial enterprise or service-providing company, in areas related to: classical, unconventional, computer-assisted processing technologies; design of products and installations; design and use of work, control and assembly equipment; design, organization and management of manufacturing processes; industrial management; quality of production.

TUITION

EU citizens: 3900 RON (approx. € 780)

Non-EU citizens: € 2430

ENTRY REQUIREMENTS

Baccalaureate Diploma

REASONS TO CHOOSE THIS PROGRAMME

- Profession with a wide openness on the labour market;
- Skills with high adaptability in the current economic environment;
- Opportunity for a well-paid job in the field.

CAREER OPPORTUNITIES

- mechanical engineer
- designer mechanical engineer
- mechanical processing engineer technologist
- research engineer in process equipment

- research engineer in machine building technology

PROGRAMME DETAILS

I st YEAR					
I st SEMESTER			II nd SEMESTER		
Subjects	ECTS	Type of assessment	Subjects	ECTS	Type of assessment
Linear Algebra, Analytical and Differential Geometry	4	E	Mathematical Analysis II	3	E
Mathematical Analysis I	5	E	Numerical methods	3	E
Chemistry	3	E	Computers programming and programming languages	3	V
Physics	5	E	Technical Drawing	4	V
Descriptive Geometry	5	V	Technology of Materials	5	E
Materials Science	5	E	Mechanics I	4	E
Physical education I *	1	A/R	Basics of the economy	2	E
French I	3	V	Physical education II *	1	A/R
English I			Internship	3	C
			English II	3	V
			French II		

* course credit points (ECTS) are not taken into account within the semester credit points (ECTS)

II nd YEAR					
I st SEMESTER			II nd SEMESTER		
Subjects	ECTS	Type of assessment	Subjects	ECTS	Type of assessment
Special Mathematics	3	E	Resistance of Materials II	4	E
Computer Graphics	5	V	Machine Parts I	3	E
Mechanics II	4	E	Splinting Manufacturing	3	E
Resistance of Materials I	4	E	Mechanisms	4	E
Electrotechnics and Electrical Machines	3	E	Machine – tools Vibrations	2	E
Fluid Mechanics and Pneumatic Equipment	3	E	Thermotechnics and Thermal Equipment	3	C
Enterprise Economy	3	V	Electrotechnics and Automation	3	V
Physical education III *	1	A/R	Fundamentals of Computer Aided Technological Design	3	V
English III	3	V	Physical education IV *	1	A/R
French III			Internship II	3	C
Communication	2	V	English IV	2	V
Ethics and academic integrity			French IV		

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III rd YEAR					
I st SEMESTER			II nd SEMESTER		
Subjects	ECTS	Type of assessment	Subjects	ECTS	Type of assessment
Tolerances and Dimensional Control	5	E	Splinting Tools	4	E
Machine Parts II	4	E	Splinting Tools - project	2	V
Machine-tools	5	E	Quality management	4	E
Functional design	3	E	Technological Devices I	3	E
Functional design - project	2	V	Numerically controlled manufacturing systems	3	C
Computer Aided Design of Products- CAD systems	5	V	Cold Deformation Technologies I	3	E
Thermal treatments	3	E	Machine building technology I	6	E
Finite element method	3	V	Field Internship	5	C
Tribology					

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IV th YEAR					
I st SEMESTER			II nd SEMESTER		
Subjects	ECTS	Type of assessment	Subjects	ECTS	Type of assessment
	3	E	Assembling Technologies	3	E
Cold Deformation Technologies II	4	E	Cold Deformation Technologies - project	3	V
Machine building technology II	5	E	Technology of Non-metallic Parts	4	E
Machine building technology - project	3	V	Computer-assisted manufacturing - CAM systems	4	V
Technological Devices II	5	E	Organisational culture	2	E
Technological Devices - project	3	V	Drafting of the BD Thesis	4	V
Unconventional technologies	3	E	Internship for BD Thesis	4	C
Reliability and maintenance			Ergonomics	3	E
Production and operations management I	4	V	Competing Engineering		
Logistics			Production and operations management II	3	C
			Risk management		

* course credit points (ECTS) are not taken into account within the semester credit points (ECTS)

* V = test taken in the last two weeks of the semester (about 10% of the final grade)

* C = test taken in the last two weeks of the semester (about 30% of the final grade)

* E = exam taken during the exam period (at least 50% of the final grade)