

MATERIALS SCIENCE AND TECHNOLOGY



FACULTY OF MECHANICS AND TECHNOLOGY



MATERIALS SCIENCE AND TECHNOLOGY

DEGREE TYPE UPON GRADUATION:

Master's Degree

DURATION:

1,5 years (3 semesters)

LANGUAGE:

French

ECTS POINTS:

90

PROGRAMME DESCRIPTION

The master programme trains engineers specialized in materials. It provides education at international standards and conduct research activities that meet the requirements of the nowadays labour market, especially in the industrial field. The study programme is the branch of Master Recherche Sciences des Matériaux, Nanomatériaux, Multimatériaux, coordinated by INP Toulouse.

TUITION:

EU citizens: 3700 RON (approx. € 740)

Non-EU citizens: € 2430

ENTRY REQUIREMENTS:

- Average of undergraduate study years
- Interview

REASONS TO CHOOSE THIS PROGRAMME:

- Training of engineers specialized in materials.
- Creating skills in materials and surface mechanics, characterization and control techniques.
- The ability to establish correlations between microstructure, properties and uses.
- The possibility to have a French degree and a Romanian degree at the same time.

CAREER OPPORTUNITIES

- Research engineer in materials science
- Research assistant in materials science



PROGRAMME DETAILS

I st YEAR OF STUDY					
I st SEMESTER			II nd SEMESTER		
Subjects	ECTS	Type of assessment	Subjects	ECTS	Type of assessment
Thermodynamics Applied in Metallurgy	4	E	Technologies for Making Semi-Finished Products	5	E
Phase Transformations and Microstructure of Materials	5	E	Non-Destructive Testing Techniques	5	E
Characterization of Materials	5	E	Introduction to Research	5	E
Corrosion and Anti-Corrosion Protection	4	E	Technical-Scientific French	4	V
Mechanical Behavior of Materials	4	E	Technical-Scientific English	4	V
Mechanical Properties of Surfaces	4	E	Research Project	7	V
Research Practice	4	V			

II nd YEAR OF STUDY (only one semester)		
I st SEMESTER		
Subjects	ECTS	Type of assessment
Technology of Thermal and Thermochemical Treatments	4	E
Nanomaterials and Nanotechnologies	3	E
Biomaterials	3	E
Ceramic Matrix Composite Materials	3	E
Ethics and Academic Integrity	3	C
Processing of Experimental Data	4	V

*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)



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