

MATERIALS` SCIENCE AND TECHNOLOGY

DEGREE TYPE UPON GRADUATION

Master's Degree

DURATION

1,5 years (3 semesters)

TEACHING LANGUAGE

Romanian, French (partial)

ECTS POINTS

90

PROGRAMME DESCRIPTION

The mission of the *Materials` Science and Technology* master program is to train engineers specialist in materials. The program aims to promote an educational offer to international standards and to carry out research activities that meet the requirements imposed by the industry, the master being the branch of *Master Recherche Sciences des Matériaux, Nanomatériaux, Multimatériaux* coordinated by INP Toulouse.

TUITION

EU citizens: 3500 RON (approx. € 700)

Non-EU citizens: € 2430

ENTRY REQUIREMENTS

Bachelor's Diploma

REASONS TO CHOOSE THIS PROGRAMME

- train specialists in materials, create skills in the mechanics of materials and surfaces, characterization and control techniques, as well as the ability to establish correlations between microstructure, properties and uses.

CAREER OPPORTUNITIES

- Material science researcher;

- Research assistant in material science.

PROGRAMME DETAILS

I st YEAR					
I st SEMESTER			II nd SEMESTER		
Subjects	ECTS	Type of assessment	Subjects	ECTS	Type of assessment
Thermodynamics Applied in Metallurgy	4	E	Technologies for the production of semifinished products	5	E
Phase Transformations and Materials Microstructure	5	E	Non-destructive control techniques	5	E
Materials Characterization	5	E	Research Stage	5	E
Corrosion and Anti-Corrosive Protection	4	E	Scientific-technical French	4	V
Materials Mechanical Behavior	4	E	Scientific-technical English	4	V
Surfaces Mechanical Properties	4	E	Research project	7	V
Research internship	4	V			

* 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
Technology of thermal and thermochemical treatments	4	E			
Nanomaterials and nanotechnologies	3	E			
Biomaterials	3	E			
Composite Materials with ceramic matrix	3	E			
Ethics and academic integrity	3	C			
Processing of experimental data	4	V			
Dissertation thesis preparation	4	V			
Research activity for the dissertation thesis	6	V			

* 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)