

NUCLEAR MATERIALS AND TECHNOLOGIES (NMT)

DEGREE TYPE UPON GRADUATION

Master's Degree

DURATION

2 years (4 semesters)

TEACHING LANGUAGE

Romanian

ECTS POINTS

120

PROGRAMME DESCRIPTION

The mission of the Master's degree programme in Nuclear Materials and Technologies is to train graduates with competences, skills and abilities that will facilitate their adaptation to the requirements of the Romanian and European Union labour markets. The programme contributes to the fulfilment of the faculty's mission and brings elements of distinctiveness and timeliness, as reflected in its general and specific objectives.

TUITION

EU citizens: 3900 RON (approx. € 780)

Non-EU citizens: € 2430

ENTRY REQUIREMENTS

Bachelor's Diploma

REASONS TO CHOOSE THIS PROGRAMME

- Explaining and interpreting nuclear processes, in particular the operation of nuclear reactors
- Improving the ability to develop projects on nuclear topics
- Developing nuclear risk analysis skills

CAREER OPPORTUNITIES

- Researcher in nuclear power plants
- Research engineer in nuclear power plants
- Safety engineer in nuclear sites

PROGRAMME DETAILS

I st YEAR					
I st SEMESTER			II nd SEMESTER		
Subjects	ECTS	Type of assessment	Subjects	ECTS	Type of assessment
Radioactive Waste Management	9	E	Systems of Environmental Protection in Nuclear Power Plants	7	E
Nuclear Safety Management	7	E	Management of Energy Project Funding	8	E
CANDU Reactor and TRIGA Reactor	7	E	International Treaties, Conventions and Regulations	7	E
Powder Technology and Ceramic Materials	7	E	Ethics and Academic Integrity	8	E
Psychology and Pedagogy of Adolescents, Young People and Adults* *	5	E	Didactics of the Field and Developments in Teaching the Specialization (secondary, post-secondary education, as appropriate)*	5	E
Design and Management of Educational Programmes* *	5	E			

* 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
Metals and Metal Alloys	7	E	Optoelectronic Materials and Devices	7	E
Quality Assurance of Nuclear Energy Processes	8	E	Nuclear Materials	7	E
Generation 4 Nuclear Reactors - LFR	7	E	Specialty Practice	10	C
Techniques of Structural Analysis	8	E	Practice for the Preparation of the Dissertation Paper	6	V
Optional Package 1 (choose one subject): Educational Communication, Counselling and Guidance, Educational Research Methodology, Integrated Education *	5	E	Dissertation Paper Defense *	10	E
			Optional Package 2 (choose one subject): Sociology of Education, Management of School Organisation, Educational Policies, Intercultural Education, Contemporary Pedagogical Doctrines *	5	E
			Pedagogical practice (in secondary, post-secondary education, as appropriate) *	5	C
			Graduation Exam, Level II *	5	E

* 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)