**Master’s degree program: MATHEMATICAL MODELING IN SCIENCE AND TECHNOLOGY**

**Qualification Obtained Upon Graduation: MASTER**

**Type of Master's Degree: PROFESSIONAL**

**Duration of Studies: 2 years**

**Number of ECTS Credits: 120**

**Form of Education: Full-time (FT)**

**Language of Instruction: English**

**Program Classification in Scientific Fields:**

* **Fundamental Field: Mathematics and Natural Sciences**
* **Branch of Science: Mathematics**
* **Master's Degree Field of Study: Mathematics**
* **ISCED F-2013 Classification:**
  + Broad Field of Study: 05 Natural sciences, mathematics and statistics
  + Narrow Field of Study: 054 Mathematics and statistics
  + Detailed Field of Study: 0541 Mathematics

**MISSION STATEMENT**

The teaching and research mission of the master study programme in question fits the profile and speciality of the Faculty of Exact Sciences and aims the enhancement of the research capacity within the field of „Mathematics” and the improvement of the educational process and last but not least the opening of european opportunities through its international dimension.

**OBJECTIVES OF THE STUDY PROGRAM**

* Developing the analysis and synthesis capacity;
* Forming professionals in the field of mathematics that are recognized as such in the labour market;
* Perfecting communication skills (in English) specific for the activity domain as a mean to access more attractive jobs;
* Preparing for career opportunities in domains that do not necessarily have mathematatics as the primary development goal.

**COMPETENCIES ACQUIRED THROUGH THE STUDY PROGRAM**

**Professional Competencies**

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| --- | --- |
| C1.Performs analytical mathematical calculations  C2. Synthesizes information  C3. Thinks abstractly  C4. Communicates mathematical information  C5. Studies relationships between quantities  C6. Uses data processing techniques | C7. Applies statistical analysis techniques  C8. Performs data analysis  C9. Identify statistical models  C10. Apply scientific methods  C11. Conducts scientific research  C12. Apply the principles of ethics and scientific integrity in research activities |

**Transversal competences**

CT1. Think analytically

CT2. Approach challenges positively

CT3. He is attentive to details

CT4. It works efficiently

CT5. Work in teams

**OUTCOMES**

Graduates of the master's degree program "Mathematical Modeling in Science and Technology" will access the following possible occupations according to the Romanian Classification of Occupations - ISCO -08:

**2120** - code 212002 - **mathematician expert**

**2120** - code 212013 - **statistician specialist inspector**