**Undergraduate Study Program: MATHEMATICS AND COMPUTER SCIENCE**

**Qualification Awarded Upon Graduation: MATHEMATICS AND COMPUTER SCIENCE**

**Degree Awarded: BACHELOR'S DEGREE IN MATHEMATICS**

**Duration of Studies: 3 years**

**Number of ECTS Credits: 180**

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

**Language of Instruction: Romanian**

**Program Classification in Scientific Fields:**

* **Fundamental Field: Mathematics and Natural Sciences**
* **Branch of Science: Mathematics**
* **Undergraduate 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 educational mission of the Mathematics and Computer Science study program aligns with the profile and specialization of the Faculty of Exact Sciences. It aims to train specialists in the fields of mathematics and computer science who are competitive in the job market.

**OBJECTIVES OF THE STUDY PROGRAM**

* Providing students in the Mathematics and Computer Science program with scientific and specialized training that's compatible with European standards. This training should allow them to choose specific study paths and enable quick integration into professional work.
* Promoting a modern and flexible curriculum that aligns with European values of a knowledge-based society. This involves developing interdisciplinarity and modernizing teaching, learning, and assessment methodologies to reflect the evolving dynamics of the field.
* Ensuring high quality in the teaching-learning process by continuously modernizing and improving educational technologies.
* Training specialized personnel with solid theoretical and practical knowledge, in accordance with European directives and standards.
* Encouraging graduates to pursue ongoing professional, scientific, and specialized development so they can effectively adapt to the demands of a knowledge-based society.

**OUTCOMES AND COMPETENCIES ACQUIRED THROUGH THE STUDY PROGRAM**

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| --- | --- |
| Possible Occupations according to the Romanian Classification of Occupations – ISCO-08 | ESCO Competencies |
| 2120 – cod 212009 – Mathematician  2120 – cod 212001 – Mathematical consultant  2120 – cod 212014 – Statistical analyst | C1. Develops problem-solving strategies  C2. Performs analytical mathematical calculations  C3. Synthesizes information  C4. Thinks abstractly  C5. Communicates mathematical information  C6. Applies scientific methods  C7. Uses data processing techniques  C8. Uses software for specialized design  C9. Manages personal professional development  C10. Carries out research activities at an interdisciplinary level  C11. Process data  C12. Gives proof of disciplinary expertise |
| 2330 – cod 233002 – Teacher in secondary education | C13. Teach mathematics  C14. Develop digital educational materials  C15. Use mathematical and computer tools |
| 2512 – cod 251202 – Programmer | C16. Provides technical documentation |
| 2521 – cod 252101 – Database administrator | C17. Use databases |

**Transversal competences:**

TC1. Shows initiative

TC2. Give advice to others

TC3. Akes responsibility

TC4. Works in teams

TC5. Shows confidence

TC6. Builds team spirit

TC7. Plans