

Bachelor's degree program: COMPUTER MATHEMATICS

Qualification obtained upon graduation: COMPUTER MATHEMATICS

Title awarded: BACHELOR IN MATHEMATICS

Duration of studies: 3 years

Number of ECTS credits: 180

Form of education: Full-time (IF)

Language of instruction: Romanian

Study program classification in science fields:

- **Fundamental field: Mathematics and natural sciences**
- **Branch of science: Mathematics**
- **Bachelor's degree field: Mathematics**
- **ISCED F-2013 field: broad field of study: 05 Natural sciences, mathematics and statistics**
- **ISCED F-2013 field: narrow field of study: 054 Mathematics and statistics**
- **ISCED F-2013 field: 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. It consists in training high qualified professionals in the fields of mathematics and computer science competitive in the work market.

OBJECTIVES

- Maintaining a high level of scientific training to be transferred to the students in the Mathematics & Computer Science, compatible with the EU standards and the possibility for them to opt for certain study routes in order to rapidly be integrated into the professional activity;
- Promoting a modern and flexible curriculum, according to european values of a society based on knowledge, favoring the interdisciplinarity and the methodologies of teaching, learning and evaluating, depending on the shape and dynamics of the field;
- Achieving a true quality of the teaching-learning process by making use of some continuously evolving didactical strategies;
- Training professionals with solid theoretical and practical knowledge in accordance to the european standards;
- Stimulating the interest to continue the professional training and scientific research in order to efficiently to the requirements of a knowledge-oriented society.

ACADEMIC CAREER DEVELOPMENT

Bachelor's degree graduates " Mathematics and Computer Science " according to the Romanian Occupational Catalogue (COR – ISCO-08), can be hired in the following positions	ESCO Competences
2120 – cod 212009 – mathematician 2120 – cod 212001 – mathematician 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. Takes responsibility
- TC4. Works in teams
- TC5. Shows confidence
- TC6. Builds team spirit
- TC7. Plans