**Master’s degree program: APPLIED COMPUTER SCIENCE IN SCIENCES, TECHNOLOGY, AND ECONOMICS**

**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: Romanian**

**Program Classification in Scientific Fields:**

* **Fundamental Field: Mathematics and Natural Sciences**
* **Branch of Science: Computer Science**
* **Master's Degree Field of Study: Computer Science**
* **ISCED F-2013 Classification:**
	+ Broad Field of Study: 06 Information and Communication Technology (ICT)
	+ Narrow Field of Study: 061 Information and Communication Technology (ICT)
	+ Detailed Field of Study: 0613 Software Development and Applications Analysis

**MISSION STATEMENT**

An integral part of the Faculty of Exact Sciences, the master's program, Applied Computer Science in Science, Technology and Economics has as main mission the training of specialists in computer science, programming, databases, in the spirit of democracy, equal opportunities and human personality development.

**OBJECTIVES OF THE STUDY PROGRAM**

* Development of skills to analyze economic and social facts and phenomena and to propose solutions;
* Capitalizing on the knowledge acquired by graduates in professional and scientific projects in order to meet the challenges of the Romanian and European economy;
* Training skills to develop and use methods, procedures and tools of scientific research, as well as developing in graduates the ability to formulate scientific explanations for economic and social phenomena and processes
* Stimulating the interest of graduates for continuous professional, scientific and specialized training in order to effectively adapt to the requirements of the knowledge-based society;
* Training of professional communication skills in English, of effective integration in both work teams and multinational / international research teams.

**COMPETENCIES ACQUIRED THROUGH THE STUDY PROGRAM**

**Professional Competencies**

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| --- | --- |
| C1. Presents the results of the analysesC2. Provide technical documentationC3. Carry out ICT security testsC4. Create data modelsC5. Analyze software specificationsC6. Use application-specific interfacesC7. Apply statistical analysis techniquesC8. Performs visual presentation of dataC9. Use databases | C10. Interpret current dataC11. Develop data processing applicationsC12. Synthesize informationC13. Uses data processing techniquesScientificC14. Performs risk analysisC15. Perform data analysisC16. Identify statistical models |

**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 in Applied Computer Science in Sciences, Technology, and Economics can pursue the following potential occupations according to the Romanian Classification of Occupations (ISCO-08):

* **2511** - Code 251101: **IT Systems Designer**
* **2120** - Code 212011: **Statistician Consultant**