

Master's degree program: APPLIED COMPUTER SCIENCES, TECHNOLOGY AND ECONOMICS

Qualification obtained upon graduation: MASTER

Type of master's degree program: PROFESSIONAL

Duration of studies: 2 years

Number of ECTS credits: 120

Form of education: IF (full-time education)

Language of instruction: Romanian

Science field classification:

- Fundamental field: Mathematics and natural sciences

- Branch of science: Computer science

- Master's degree field: Computer science

- ISCED F-2013 broad field of study: 06Information and communication technology (ICT)

- ISCED F-2013 narrow field of study: 061Information and communication technology (ICT)

- ISCED F-2013 detailed field of study: 0613 Software and application development and 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

- 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 AND EXPECTED LEARNING OUTCOMES DEVELOPED WITHIN THE STUDY PROGRAM

Professional competencies:

C1. Presents the results of the analyses
C2. Provide technical documentation
C3. Carry out ICT security tests
C4. Create data models
C5. Analyze software specifications
C6. Use application-specific interfaces
C7. Apply statistical analysis techniques
C8. Performs visual presentation of data

C9. Use databases
C10. Interpret current data
C11. Develop data processing applications
C12. Synthesize information
C13. Uses data processing techniques Scientific
C14. Performs risk analysis
C15. Perform data analysis
C16. Identify statistical models

Transversal competencies:

CT1. Think analytically
CT2. Approach challenges positively
CT3. He is attentive to details

CT4. It works efficiently
CT5. Work in teams

ACADEMIC CAREER DEVELOPMENT

The graduates of the Master of Science (MSc) program in “**Applied computer science in technology, economics and science**”, according to the Romanian Occupational Catalogue (COR – ISCO-08), can be hired in the following positions:

2511 – code 251101 Computer System Designer
2120 – code 212011 - Statistician Adviso