**Undergraduate Study Program: COMPUTER SCIENCE (in English)**

**Qualification Awarded Upon Graduation: COMPUTER SCIENCE**

**Degree Awarded: BACHELOR'S DEGREE IN COMPUTER SCIENCE**

**Duration of Studies: 3 years**

**Number of ECTS Credits: 180**

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

**Language of Instruction: English**

**Program Classification in Scientific Fields:**

* **Fundamental Field: Mathematics and Natural Sciences**
* **Branch of Science: Computer Science**
* **Undergraduate 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**

The educational mission of the Computer Science study program aligns with the profile and specialization of the Faculty of Exact Sciences. It focuses on training highly qualified professionals in the field of Computer Science, in line with the dynamics of the job market's supply and demand, and with the requirements for Romania's integration into the European Union.

**OBJECTIVES OF THE STUDY PROGRAM**

* Provide students in the Computer Science program with scientific and specialized training that meets European standards. This training should allow them to choose specific study paths and enable quick integration into professional work.
* Promote 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.
* Ensure high quality in the teaching-learning process by continuously modernizing and improving educational technologies.
* Encourage graduates to pursue ongoing professional, scientific, and specialized development so they can effectively adapt to the demands of a knowledge-based society.

**COMPETENCIES ACQUIRED THROUGH THE STUDY PROGRAM**

**Professional Competencies**

|  |  |
| --- | --- |
| C1. Create the process diagram  C2. Analyze software specifications  C3. Aligns software to system architectures  C4. Provides technical documentation  C5. Create software  C6. It uses application-specific interfaces  C7. Interact with users to find out their requirements  C8. Develop the prototype for the software  C9. Translates requirements into a visual model  C10. Fix bugs in software | C11. It uses software libraries  C12. Design the user interface  C13. Design the computer system  C14. Create data models  C15. Use computer-aided software engineering tools  C16. Define software architecture  C17. Manage databases  C18. Implements the visual design of websites  C19. Design a computer network  C20. Ensures information security |

**Transversal competences**

TC1. Shows initiative

TC2. Give advice to others

TC3. Takes responsibility

TC4. Works in teams

**OUTCOMES**

Graduates of the undergraduate study program will be able to access the following possible occupations, according to the Romanian Classification of Occupations – ISCO-08

251201 – Analyst

251202 – Programmer

252101 – Database administrator

251305 – Web Content Manager

252301 – Computer network administrator

252908 – ICT security administrator