

Master's degree program: ARTIFICIAL INTELLIGENCE

Qualification obtained upon graduation: MASTER

Type of master's program: PROFESSIONAL

Duration of studies: 2 years

Number of ECTS credits: 120

Form of education: IF (full-time education)

Language of instruction: English

Science field classification of the study program:

- Fundamental field: Mathematics and natural sciences

- Branch of science: Computer science

- Master's degree field: Computer science

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

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

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

MISSION STATEMENT

The mission of the Artificial Intelligence master's program, taught in English, is to train specialists with advanced competencies in the design, development, and implementation of AI-based systems, capable of responding to current and future labor market demands and contributing to the development of the digital society.

OBJECTIVES

- Developing advanced technical competencies in modeling, analysis, and development of AI-based solutions
- Developing the ability to apply AI methods in real-world contexts through projects, case studies, and interdisciplinary applications
- Developing research, critical analysis, and innovation competencies in AI
- Developing competencies for designing, developing, and integrating intelligent software systems
- Developing transversal competencies such as communication, teamwork, and project management
- Promoting ethical, responsible, and explainable use of AI systems
- Adapting graduates' competencies to current and emerging labor market requirements in AI and digital technologies

COMPETENCES AND EXPECTED LEARNING OUTCOMES DEVELOPED WITHIN THE STUDY PROGRAM)

Professional competencies

- | | |
|---|---|
| C1. Analyze large datasets | C10. Interpret current data |
| C2. Apply statistical analysis techniques | C11. Present analysis results |
| C3. Normalize data | C12. Design the information system |
| C4. Perform data cleaning | C13. Write scientific papers, academic works, and technical documentation |
| C5. Use databases | C14. Develop software prototypes |
| C6. Manage databases | C15. Define the software architecture |
| C7. Use data processing techniques | C16. Use software libraries |
| C8. Create data models | |
| C9. Extract information from data | |

Transversal competencies

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

ACADEMIC CAREER DEVELOPMENT

Graduates of the Artificial Intelligence master's program (in English), according to the Romanian Occupational Classification (COR - ISCO-08), may be employed in the following positions:

- 2511 Systems analysts – code 251101 – Information systems designer
- 2512 Software designers – code 251201 – Analyst