Master in Information Science

U.PORTO
FEUP FACULDADE DE ENGENHARIA
UNIVERSIDADE DO PORTO

fe.up.pt/mci

Numerus clausus (2023/24): **25 ***
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GENERAL GOALS DEFINED FOR THE MASTER'S DEGREE

The Master in Information Science (MCI) is a joint initiative of the Engineering (FEUP) and Arts and Humanities (FLUP) faculties at the University of Porto. The MCI is designed for individuals seeking a professional or research career in Information Science. The program provides a solid scientific education, technical training, and excellent preparation for a profession based on discovering, evaluating, organising, providing access to, and preserving information in various formats and contexts. The elective courses provide students the ability to emphasise one of three distinct curricular paths: data management, information management and user experience.

The Master in Information Science aims to:

. Provide high-quality scientific education and excellent preparation for a career in information science;
. Develop strong technical and social skills in data and information management, enabling problem-solving in multidisciplinary contexts;
. Establish close relationships with potential employers (via dissertations, projects, and other forms of collaboration) to promote applying acquired knowledge and skills in real-life scenarios;
. Foster teamwork and collaboration skills.

The MCI graduates can apply their skills wherever information plays a key role, from the public and private sector, such as:

. Small and medium-sized enterprises, large economic groups;
. Public administration services, central and municipal services;
. Archives, libraries, museums and other information services;
. Educational and research institutions.

LEARNING GOALS

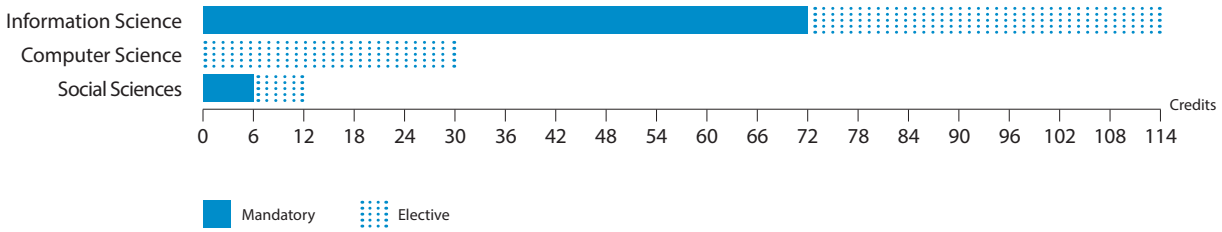
After completing the MCI graduates are able to:

. Structure and organise information; dematerialize and systematise processes and workflows; plan and conduct document management activities;
. Survey, gather and analyse requirements for information systems, analyse domains and build conceptual models compatible with computer systems;
. Design, implement, and evaluate information architecture in creating digital products and services; analyse and design the interactive components of systems, particularly the interface with users;
. Use data analysis and visualisation tools to support decision-making;
. Promote, control and assess digital preservation strategies;
. Design and evaluate social media presence strategies in organisational contexts;
. Apply fundamental legal notions within the scope of Information Law in the context of organisational activities, such as promoting, communicating, controlling and supervising compliance with the General Data Protection Regulation.

LEARNING METHODOLOGIES

The MCI program's learning methodologies provide graduates with a comprehensive education in recent developments in Information Science and specialised training in advanced and professional topics tailored to each student's interests. Both mandatory and elective courses allow students to define their professional path.
Class types (lectures, labs, or a combination), and teaching methodologies (such as project-based learning and autonomous research-based learning) are adopted according to each course's specific learning goals. Elective courses offer more personalised training. In the last year, students perform an individual dissertation/project in an academic or an organisational context.

SCIENTIFIC AREA



STUDY PLAN

1st YEAR

1st SEMESTER	Credits
. Knowledge Representation	6
. Knowledge Management and Collaboration	6
Elective Units of Study *(18 Credits)*	
□ . Information and Scientific Communication	6
△ . Data Analysis and Visualization	6
△ . Information Security	6
○ . Cognitive Psychology	6
○ . Human-Computer Interaction	6

2nd SEMESTER	Credits
. Information Law	6
. Content Analysis and Indexing	6
Elective Units of Study *(18 Credits)*	
□ . Digital Archives and Libraries	6
□ . Social Network Information Management	6
△ . Research Data Management	6
○ . Information Architecture	6
○ . Information Systems Requirements Engineering	6

2nd YEAR

1st SEMESTER	Credits
. Dissertation/Project (yearly course)	
. Research Methodology	6
. Information Management Consulting	6
Elective Units of Study *(6 Credits)*	
. Information Society	6
□ . Digital Preservation	6
△ . Analytic Information Systems	6

2nd SEMESTER	Credits
	42

□ Emphasis in information managment △ Emphasis in data managment ○ Emphasis in user experience

Note: in the 1st, 2nd and 3rd semester, each student must select 18 ECTS of elective course