

PROJECT OR INTERNSHIP (EMaCS-04-05)				
DEGREE PROGRAM:		Master in Computer Science for the Human-Centric and Sustainable Industry		
SEMESTER: Fourth	TYPE: Basic	CREDITS: 30 ECTS	WORKLOAD: 750 hours	MENTORING: 1 hours/week
LANGUAGE: English				

OBJECTIVES	
General	<ul style="list-style-type: none"> Give students the opportunity to carry out a research project in the field of Computer Science for the Human-Centric and Sustainable Industry under supervision according to an individual study plan, to summarise the results in a research report and to present the results of the project.
Specific	<ul style="list-style-type: none"> Students are expected to work under supervision according to an individual plan, to report and to present the results.

SUSTAINABILITY
<p>The Project or Internship course stands as a pivotal opportunity for students to contribute significantly to sustainability within the realm of Computer Science for the Human-Centric and Sustainable Industry. By engaging in a research project or internship under supervision and according to an individual study plan, students delve into real-world applications that emphasize sustainable practices. Through weekly meetings, students receive guidance to analyse existing technologies and make informed decisions regarding tools and methodologies. The course allows students to explore how their work can align with principles of sustainability, ensuring that they actively contribute to the creation and implementation of technology that promotes environmental consciousness. The presence of a company tutor during internships further connects academic learning with industry practices, fostering a holistic understanding of sustainable development in the professional context.</p>

RESILIENCE AND HUMAN-CENTRIC DEVELOPMENT
<p>The Project or Internship course is designed to actively contribute to resilience and human-centric development within the field of Computer Science. As students work on individual projects or placements under supervision, they are encouraged to solve problems in new and unfamiliar situations, promoting a resilient and adaptive mindset. The emphasis on weekly meetings, including the involvement of a company tutor during internships, facilitates effective communication, collaboration, and project management. This ensures that students not only address technical challenges but also develop a deep understanding of the human-centric aspects of their work. By justifying their choices of tools and methodologies, students demonstrate critical thinking and an awareness of the societal impact of their projects, contributing to the development of professionals who prioritize resilience, human well-being, and ethical considerations in their work.</p>

SUBJECT MATTER
<ul style="list-style-type: none"> Weekly meetings with the student. In the case of an internship, the tutor from the company should also be present. Depending on the project or placement, the contents will vary from student to student.

COMPETENCES
<p>C1. ACQUIRING DATA, INFORMATION AND DIGITAL CONTENT C3. MANAGING AND EVALUATING DATA, INFORMATION AND DIGITAL CONTENT C6 USING MACHINE LEARNING AND AI TECHNIQUES C8. PROTECTING HEALTH AND WELL-BEING C10 EXPLORATORY AND CRITICAL THINKING C14 SOLVING TECHNICAL PROBLEMS C15 MANAGING SYSTEMS and/or PROJECTS C16 WORKING WITH OTHERS C17. COMMUNICATING EFFECTIVELY</p>

C18. COLLABORATING THROUGH DIGITAL TECHNOLOGIES

LEARNING OUTCOMES

Knowledge	<ul style="list-style-type: none"> Analyzing the existing technology in Computer Science for the Human-Centric and Sustainable Industry. Justification of the choice of tools and methodologies to be used.
Skills	<ul style="list-style-type: none"> Solve problems in new and unfamiliar situations.
Attitudes/values	<ul style="list-style-type: none"> Develop self-learning habits.

TEACHING METHODS

Individual work under supervision.

EVALUATION

- The examination consists of a written research report, a presentation and a defence.
- Presentation of a final written report to a panel of judges, followed by discussion.

PRECONDITIONS

None

DEPARTMENT	Department of Informatics Engineering and Systems
LECTURERS	Any of the professors involved in teaching the master's degree.
LITERATURE	An individual reading list.