## Mondragon Unibertsitatea Goi Eskola

Escuela Politécnica

### Goi Eskola Politeknikoa | Mondragon Unibertsitatea

Course: 2025 / 2026 - Course planning

[MDC403] INTERACTION DESIGN

**GENERAL INFORMATION** 

Studies UNIVERSITY MASTER IN STRATEGIC PRODUCT

AND SERVICE DESIGN

Course 1

Mention / Field of

Character COMPULSORY

specialisation

Plan 2025

Modality Face-to-face

Credits 4 Hours/week 2.22

Language CASTELLANO

Subject ?

Total hours 40 class hours + 60 non-class hours = 100 total

hours

**PROFESSORS** 

VALENCIA PARAFITA, XABIER

REQUIRED PREVIOUS KNOWLEDGE

Subjects Knowledge

DESIGN METHODOLOGY

Semester 2

(No previous knowledge required)

VISUAL COMMUNICATION

LEARNING RESULTS

LEARNING RESULTS KC SK AB ECTS

MDRB17 - To know how to apply the acquired knowledge and competencies and the ability to solve problems in new or unfamiliar contexts within wider (or multidisciplinary) environments related to their field of study

Total: 4

KC: Knowledge or Content / SK: Skills / AB: Abilities

#### SECONDARY LEARNING RESULTS

RMD17 [!] Desarrollar soluciones digitales interactivas y accesibles, acordes con el ecosistema digital actual, aplicando metodologías data-driven y user-centered, permitiendo realizar analítica visual sobre diferentes fuentes de información

LEARNING ACTIVITIES	CH	NCH	TH	
Development and writing of records, reports, presentations, audiovisual material, etc. on projects/work experience/challenges/case studies/experimental investigations carried out individually and/or in teams	18 h.	22 h.	40 h.	
Conducting tests, giving presentations, presenting defences, taking examinations and/or doing checkpoints	2 h.	8 h.	10 h.	
Carrying out exercises and solving problems individually and/or in teams	20 h.	30 h.	50 h.	

**EVALUATION SYSTEM** W **MAKE-UP MECHANISMS** 50% Reports on the completion of exercises, case studies, computer Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, simulation exercises, laboratory exercises, term exercises, term projects, challenges and problems projects, challenges and problems Presentation and defence of exercises, case studies, 40% Individual written and/or oral tests or individual computer practical work, simulation practical work, coding/programming tests laboratory practical work, term projects, end of degree Observation (technical capacity, attitude and participation) project, master's thesis, challenges and problems Individual written and/or oral tests or individual 10% coding/programming tests

CH - Class hours: 40 h. NCH - Non-class hours: 60 h. TH - Total hours: 100 h.

#### **CONTENTS**

- 1. Digital technology ecosystems:
  - 1. Introduction to existing technologies
  - 2. Factors influencing the development of HMIs
- 2. Design and development of interactive digital interfaces (HMI WEB, HMI Mobile, HMI Industrial):
  - Development of interfaces based on web technologies
  - 2. Interface development based on mobile technologies
  - 3. Interface development based on industrial technologies

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- 4. Accessibility

- 5. Prototyping through frameworks6. Interactive images3. Visual analytics for user behaviour analysis:

  - Interaction data analysis
    Automatic discovery of interaction patterns
    User behaviour based Interface redesig

# LEARNING RESOURCES AND BIBLIOGRAPHY

Learning resources **Bibliography** Class presentations https://labur.eus/l4iy7 Moodle Platform

Programmes Topic related web quires