

# NEW TECHNOLOGIES AND DECISION MAKING IN VUCA ENVIRONMENTS

## General information

**Formatua:** Aurrez-aurre Arrasateko campusean eta Online nahieran

**Hizkuntza:** Gaztelera eta ingelesa

**Plaza kopurua:** 25

**Nori zuzendua:** Gradu guztiak

## Objective

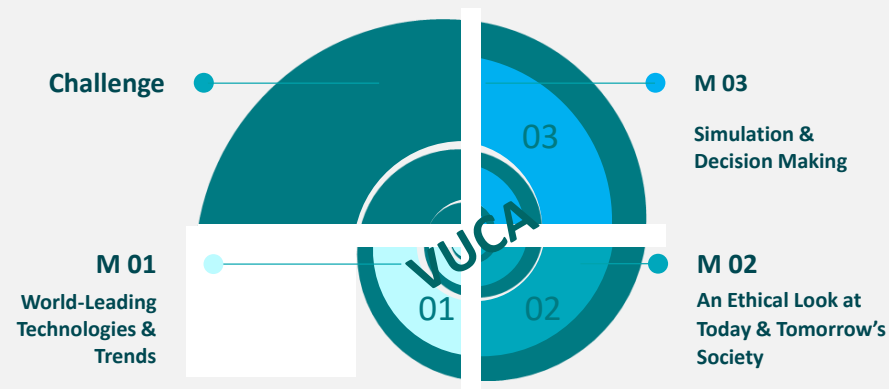


The objective of this module is to acquire and internalize knowledge to face the transition to a new global paradigm. To learn about the VUCA environment, the leading technologies of the moment and to develop an innovative approach that allows our students to be protagonists of sustainable and inclusive solutions.

## Methodology



- A Big Challenge divided in 4 parts, where new knowledge will be added (with different Expert Training Sessions).



## Kontaktua



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## Ikasgaiak/Edukiak



### World-Leading Technologies and Trends (5 ECTS / Gaztelera-Ingelesa/Aurrez-aurre + Online nahieran)

#### Introduction to technology

- What is technology?
- Technology types and classification

#### Understanding and managing technological change

- Technology evolution and its impact on markets
- Introduction to Management of technology (MOT)

**Introduction to emerging technologies:** Big Data and Data Science, The Internet of Things (IoT), Cloud computing, Blockchain, Cybersecurity, Artificial Intelligence, Virtual Reality (VR), Digital twins

#### Introduction to emerging trends

- Trends triggering innovation within markets

English (Contents) & Spanish  
(Guest Speakers). ½ Day  
Face to Face per week.



### An Ethical Look at Today & Tomorrow's Society (4 ECTS / Gaztelera-Ingelesa/Aurrez-aurre + Online nahieran)

#### Ethics in the Digital World & Artificial Intelligence

#### Ethical Leadership

#### General ethical issues related to technology

#### Digital Print

- Memory and technology
- Video evidence

#### The power of "the public"

- Pooling / Social media sentiment / Dehumanization

#### Intellectual Property

English (Contents and Series  
Videos) & Spanish (Debate). ½  
Day Face to Face per week.



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## Ikasgaiak/Edukiak



### Simulation & Decision Making (6 ECTS / Gaztelera-Ingelesa/Aurrez-aurre + Online nahieran)

#### System Thinking

- Introduction to Systems Thinking
- The Application of Systems Thinking

#### System Dynamics

- Why Model?
- System Conceptualization and Mapping
- Developing causal loop diagrams using Vensim
- System Dynamics Simulation Using Stock-and-Flow Diagrams

#### Practical and policy implications

- How Systems Thinking Can Contribute to Policy Decision Making

English (Contents) and Spanish & English (Depending on guest Speakers). 2 days Face to Face per week.



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