

NEW TECHNOLOGIES AND DECISION MAKING IN VUCA ENVIRONMENTS

General information

Formatua: Aurrez-aurre Arrasateko campusean

Hizkuntza: Gaztelera eta ingelesa

Plaza kopurua: 25

Nori zuzendua: Gradu guztiak

Objective

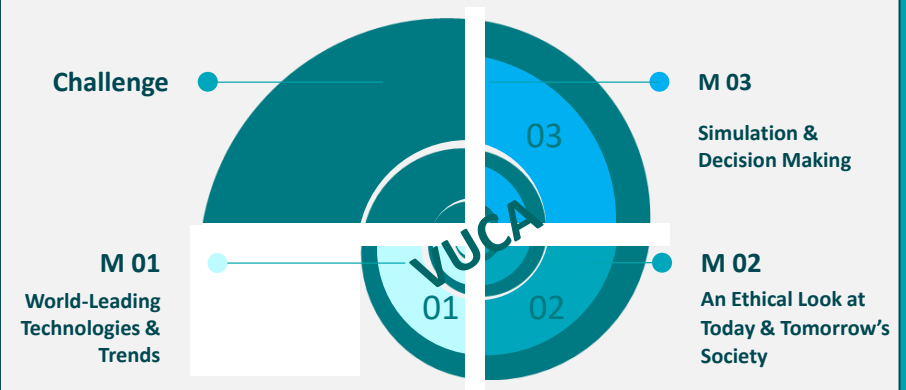


The objective of this module is to acquire and internalize knowledge to face the transition to a new global paradigm. To learn about the VUCA environment, the leading technologies of the moment and to develop an innovative approach that allows our students to be protagonists of sustainable and inclusive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

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)

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.



NEW TECHNOLOGIES AND DECISION MAKING IN VUCA ENVIRONMENTS

Ikasgaiak/Edukiak



Simulation & Decision Making (6 ECTS / Gaztelera-Ingelesa)

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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