

EXECUTIVE MASTER IN DIGITAL TWINS FOR INFRASTRUCTURES AND CITIES



Área: Sin clasificar
Modalidad: Presencial
Duración: 153 h
Precio: Consultar

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OBJETIVOS

The subjects, and the competences acquired in the Executive Master have been designed with a practical orientation to enable students to acquire the most relevant digital skills needed in the field of Digital Twins applied to infrastructures. In addition, the courses will facilitate the understanding of the benefits of the creation and development of digital twins and will enable them to address the complex problems often encountered in the planning, design, construction, operation and management of infrastructures and urban ecosystems.

CONTENIDOS

- oDigital models and networks for digital twins
- oGIS in Digital Twin Cities GIS-C
- oNetwork design for DT
- oAdvanced BIM a-BIM
- oProgramming and software development
- oPython programming Phy
- oRelational databases and SQL
- ooT and Signal processing
- oData science and artificial intelligence applied to Digital Twins
- oCloud computing and cybersecurity
- oMachine learning and data analysis
- oKnowledge representation and semantic interoperability K&S
- oManagement of Digital Twins & Industry 5.0
- oDesign and deployment of DT
- oInnovation and industry 5.0
- oValidation and usage of DT
- oApplied Skills: Mobility & Transport
- oIntelligent transport systems
- oMobility data analysis
- oRoad and railtrack management systems
- oApplied Skills: Water & Energy
- oDT in water resources management
- oDT in desalination and wastewater management