



EUROPEAN

JOINT MASTER IN **DIGITAL & SUSTAINABLE** MANUFACTURING ENGINEERING



**Study, work, and experience Europe with EU4DUAL.
Where engineering education meets real-world
innovation**



Erasmus+



Co-funded by
the European Union

WHY STUDY THIS MASTER?

01

EUROPEAN MASTER'S DEGREE



A joint Master delivered across Spain, Poland, France and Austria.

03

A BIP (Blended Intensive Programme)



Interdisciplinary projects through two international mobility periods.

02

Internship in another country



Combine paid work experience with your studies.

04

DUAL STUDIES



5 months of paid professional experience integrated into the programme.

4 SPECIALITIES TO CHOOSE



Smart Manufacturing
Simulation 

Robotics for
Manufacturing 



Smart Production 

Additive 
Manufacturing



Study programme

1st SEMESTER (30 ECTS)

MANDATORY COURSES

TR1. Sustainable & Lean Manufacturing (3 ECTS)	TR5. Industry 5.0 (3 ECTS)
TR2. Product Lifecycle Management (3 ECTS)	TR6. Interdisciplinary Digital Transition (6 ECTS)
TR3. Advanced Simulation & Modelling (6 ECTS)	TR7. Interdisciplinary Sustainable Future (6 ECTS)
TR4. Artificial Intelligence for Manufacturing Engineers (3 ECTS)	

2nd SEMESTER (30 ECTS)

TRACK 1 (25 ECTS, MU, SPAIN):

Simulation-driven Innovation in Smart Manufacturing

- SI1. Advanced materials characterisation and inspection technologies (5 ECTS)
- SI2. Next-Gen Metal Forming: From Simulation to Industrial Applications (6 ECTS)
- SI3. Applied simulation to Casting of advanced components of aeronautic parts (3 ECTS)
- SI4. Manufacturing Composites for High-Tech Industries (3 ECTS)
- SIS. Machining (7 ECTS)

TRACK 3 (25 ECTS, FHJ, AUSTRIA):

- SP1. Analytics & Artificial Intelligence (5 ECTS)
- SP2. Production Systems Engineering (5 ECTS)
- SP4. Digital Production Logistics (5 ECTS)
- SP3. Production Integration (Vertical) (5 ECTS)
- SP5. Value & Cost Engineering (5 ECTS)

TRACK 2 (25 ECTS, KUT, POLAND):

Additive Manufacturing Technologies

- AM1: Materials for Additive (4 ECTS)
- AM2: Additive Manufacturing Technology from Manufacturing Polymers (5 ECTS)
- AM3: Additive Manufacturing Technology from Metals (5 ECTS)
- AM4: Designing for Additive Manufacturing (5 ECTS)
- AM5: Modelling and Simulation of Additive Manufacturing Processes (5 ECTS)

TRACK 4 (25 ECTS, ESTIA, FRANCE):

Robotics for Manufacturing

- RO1. Fundamentals of robotics (5 ECTS)
- RO2. Industrial cells implementations (5 ECTS)
- RO3. Enhanced robotic cells (6 ECTS)
- RO4. Robotics application to advanced processes (4 ECTS)
- RO5. Methods for advanced and robotized processes (4 ECTS)

3rd SEMESTER (30 ECTS)

- TR9. Research & Innovation (5 ECTS)
- Master's thesis (25 ECTS)

TOTAL CREDITS: 90 ECTS

Language: English

Start: September (winter semester)

First Year (60 ECTS)

European Students: 9,600 €

Non-European Students: 12,480 €

Second Year (30 ECTS)

European Students: 4,800 €

Non-European Students: 6,240 €

EUROPEAN JOINT MASTER IN DIGITAL & SUSTAINABLE MANUFACTURING ENGINEERING

PATHWAY TO EUROPE (PRE-ARRIVAL)

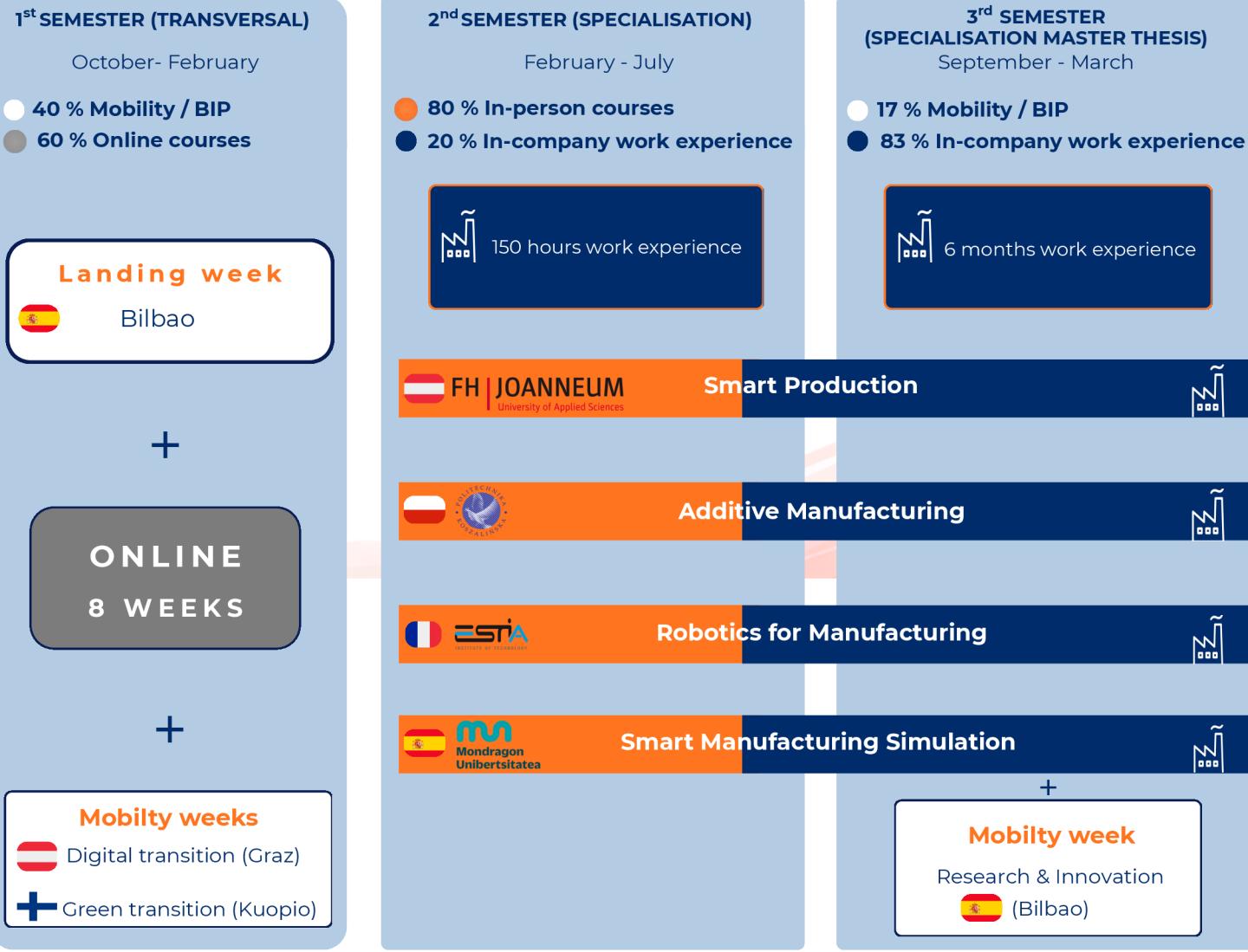
- Apply
- Enrol
- Student agreement
- Visa

Mobility grants

>=450€/each



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Career and research opportunities as an EU4Dual engineer

Occupations

Research/ PhD

Lifelong learning

OBJECTIVES

A master's degree for Europe's Green & Digital Transformation

Designed for engineers ready to lead Europe's industrial future.



This programme focuses on advanced manufacturing, preparing engineers with **industry-driven skills** through dual study and micro-credentials.

Graduates will:

- Understand the **Green and Digital Transitions**
- Develop **leadership skills** for industry and research
- **Work effectively** across borders and disciplines

ACCESS

Graduates with direct access in the following fields :

- Mechanical engineering
- Manufacturing engineering
- Materials science and engineering
- Industrial engineering
- Aerospace engineering
- Civil engineering
- Automotive engineering
- Metallurgical engineering



Professional **OCCUPATIONS**

Chief Technological Officer (CTO)

(ESCO code 1330.3)

Manufacturing engineer

(ESCO code 2141.4.1)

Calculation / simulation engineer

(ESCO code 2149.2.1)



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CONTACT US

✉ masteruni.ing@mondragon.edu

🌐 eu4dual.education

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Where engineering education meets real-world innovation

INFORMATIVE SESSIONS
REGISTRATION AND ENROLLMENT

Join them!
20/05/2026



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