Master of Interdisciplinary & Innovative Engineering

Q1 & Q2: Background (60 ECTS, 10 courses x 6 ECTS)
- Data acquisition & Instrumentation
- Data Analysis & Pattern Recognition
- Control Systems
- Computer Vision
- Systems Modeling
- Risk Analysis
- Simulation & Optimization
- Sustainability & Circular Economy

Core skills
- Technology Innovation
Management skills
- Management of Technology

Q3: Specialization (30 ECTS, 5 courses x 6 ECTS)
- Elective 1
- Elective 2
- Elective 3
- Elective 4
- Elective 5

Energy-efficient technologies
- Renewable energy systems
- Electrical energy processing
- Sustainable materials
- Fuel cells
- Electron beam applications

Smart factories
- Advanced manufacturing
- Mechatronics
- IoT sensors & MEMS
- Plant monitoring & fault detection
- Robotic systems

Healthcare/biomedical
- Biomedical signal analysis
- Biofunctional materials
- Bioinformatics
- Wearable devices
- Biomechanics & sport technology

Specialization tracks

Q4: Final Master Thesis (30 ECTS)