

Circular Economy

The Major **Circular Economy** aims at introducing students to circularity as a **strategic framework to steer a transition towards sustainable production and consumption** in the context of **climate change mitigation**. Students will learn how to **model, analyse, restructure and develop new industrial systems** leveraging on circular economy strategies

Circular Economy Lab (ING-IND/17 and 35)

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- Circular Industrial Systems (ING-IND/17)
- Circular Economy Business Models (ING-IND/35)
- Sustainable Manufacturing (ING-IND/17)
- Green Logistics (ING-IND/17)

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Expected Learning Outcomes

The student that has successfully attended the course is expected to be able to:

- identify circularity improvement opportunities and apply CE strategies relevant to a specific business/industrial context
- analyse the impact of CE strategies on improvement of circularity and economic, environmental and social performance of a company/industry
- analyse the transition from linear to circular economy
- present solutions and ideas in a professional and constructive way, fostering the value of the teamwork, and using a language adequate to both managers and fellow students

Professors

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Learning Experience

The lab leverages the following teaching methodologies:

- **Traditional lectures**, providing theoretical background
 - **Simulation-based business game**
- Individual and **group work** on exercises (to apply knowledge, methods and tools acquired)
- **Group work** on a company problem – **project work** supported by companies (to apply knowledge, methods and tools acquired)
 - **Seminars** with company guest speakers

Examples of involved companies (in the past years – similar courses)

Arup, Falck Renewables, Siemens