

DIM-MESEM-518 Sustainability and circular economy

Syllabus

Chapter 1: Introduction to the sustainability challenge

- 1.1 Definition of environment and sustainability.
- 1.2 Key terms: anthropocene, planetary boundaries, sustainable development, resilience.
- 1.3 Components that integrate the environmental system, both natural (biotic and abiotic) and anthropic. Analysis of socio-environmental interrelationships.
- 1.4 Sustainability indicators: weak and strong.
- 1.5 Actors on the sustainability stage.
- 1.6 Introduction to environmental legislation.

Chapter 2: Tools for sustainability

- 2.1 ISO 14001 Environmental Management Systems
- 2.2 Environmental Impact Study.
- 2.3 Integrated Environmental Authorization.
- 2.4 Life Cycle Analysis.

Chapter 3: Circular Economy

- 3.1 Introduction to the Circular Economy as a new paradigm.
- 3.2 Presentation of example cases.