









- General contextualization. Circular Economy: concepts, characteristics, principles and benefits. Key strategies and instruments for measuring environmental impacts and promoting the Circular Economy. Introduction to the environmental impacts of the life cycle of a product and an organization (GHG emissions, eutrophication, water footprint, ecological footprint...).
- Introduction to Life Cycle Thinking (LCT). Life Cycle and extended producer responsibility. Life Cycle concepts. Methodological principles of Life Cycle Assessment (LCA) based on international standards UNE-EN ISO 14040, UNE-EN ISO 14044 and ISO 59000 series.
- 3. Methodology and tools for Life Cycle Assessment calculation. Basic skills for the use of Life Cycle Assessment software: OpenLCA.
- 4. Calculation of the environmental footprint of products and organizations through an LCA tool.
- 5. Sustainable product design tools. Possibilities for transforming production with a more qualitative perspective. Eco-innovation and a change of values in a new or existing product. Traditional R's (Reuse, Repair or Recycle) and more complex R's (Remanufacture, Relocate, Reconceptualize...) to generate a design based on new social values and responsibility management.