Learning objectives of the subject

At the end of the course the student will be able to:

• Demonstrate a basic understanding of the key concepts and principles, benefits, challenges and underlying philosophy associated with the efficiency of resource use under the circular economy paradigm.
• Critically assess the technical and environmental impact of the implementation of aspects of the circular economy in industrial sectors, particularly in relation to the recovery of waste for the production of materials and energy and the regeneration of water for reuse.
• Evaluate the challenges in the field of sustainability, identify and formulate hypotheses or innovative ideas and apply the scientific method to solve practical problems.
The final grade is determined according to the following equation:

\[ \text{Final grade} = (D1-D4) \times 0.35 + D5 \times 0.35 + PG \times 0.15 + OP \times 0.15 \]

D = Deliverable (1-5)
PG = Peer grading
OP = Oral presentation
Bibliography

Basic:


Others resources:

- Spire Circular Economy Road-Map: https://www.spire2030.eu/intro
- EU Circular economy Road Map: https://ec.europa.eu/growth/industry/sustainability/circular-economy_en
- Scientific papers from different databases: Science Direct, Scopus
- Use the remote access to the UPC library: https://apps.bibliotecnica.upc.edu/discovery/bases_dades/