



Fundamentals of Sustainability and Circular Economy in a Holistic Context

ECTS Credits: 5 ECTS

Teaching Staff:

Group	Teacher	Department	Language
Ed: 1	Francesc Lozano Winterhalder	Society, Politics and Sustainability	ENG
Group	Teacher	Department	Language
Ed: 2	Francesc Lozano Winterhalder	Society, Politics and Sustainability	ENG

WORKLOAD DISTRIBUTION

COURSE LEARNING OBJECTIVES

- To understand the roots of the worldwide environmental crisis and its consequences
- To be aware of the solutions
- To clarify that acting at all levels (companies, public sector, private life) we need responsibility and opportunity at the same time
- To know what a sustainable business is, analyzing real cases
- To discover how to become an innovator and sustainable entrepreneur
- To know the worst problem, we are facing nowadays all over the world: Climate Change (What is this? Reasons, actions facing the problem, companies, energy, and Climate Change)
- To be familiar with the best tool we have to solve our planetary crisis, the Circular Economy
- To inform about the framework developed recently to transform our linear economies into circular, closing the loop
- To have knowledge of how to transform a company into circular (circular models), including case study
- To see a big panorama of sustainability including global factors, social and ethical aspects, including the fundamentals for the new future leaders.

CONTENT

1. SUSTAINABILITY AS RESPONSIBILITY AND OPPORTUNITY

1.1. Is there an environmental crisis?

1.2. Environmental risk - BP case discussions - Nature is our mother but also our killer - Natural risk and consequences.

1.3. Why do we have a crisis?

1.4. The ecological footprint - Biodiversity and planet balance - Why is there important biodiversity? Health, food, biotechnology... - Ecosystems and business (externalities)

1.5. Are there any solutions for our environmental crisis? - The role of technology - The case Ford – Sustainable Business Models – Case analysis – Sustainable Innovation and entrepreneurship – Case analysis

2. SAVING ENERGY

2.1. Climate Change - Six Degrees, a National Geographic Report – Carbon Footprint - Climate vs. weather - The Greenhouse Effect - Reasons of our global warming and Climate Change - Consequences - Two key actions

2.2. What kind of energy do we need? - Renewable and not renewable sources of energy - Strategies in front the energy challenges - The concept of negawatts - Global Energy Trends report

2.3. How do companies deal with climate change and the energy problem?

3. REDUCING IMPACTS

3.1. The strategy of the three "r": reducing, reusing, recycling

3.2. Workshop: from linear to circular - What is Circular Economy? – Towards a zero-waste world (Imitating nature)

3.3. The Circular Economy Action Plan (UE) – How to transform a company into circular? (AENOR Guide) – Circular models and successful cases

4. CONSIDERING VALUES AND WORLDWIDE FACTORS

4.1. Global aspects: "The Story of Stuff" (activity in groups)

4.2. Social perspective: Introduction to Sustainability Analytics - Creating Shared Value (M. Porter) - M. Porter in New York (short video) - Creating Sustainable and Pro-social Enterprise

4.3. Values - International Manager Behavior (Global and Sustainable Leadership, including ethical aspects) - Responsible consumption - Designing a Sustainable Financial System (Development Goals and Socio-Ecological Responsibility) - Deep roots of our environmental crisis - From a biological evolution to an ethical one - Towards a holistically sustainable development

5. FINAL WORK PRESENTATION

METHODOLOGY

- Lectures given by the teacher. These are illustrated with an important amount of audiovisual support material. In a word: master classes online (explanation of the basic theme)

- Workshop

- Going in depth in different fundamental matters and case analysis, as homework. These studies will be done in general in groups and will be presented in class for discussion and comment.

Assessment criteria

The assessment will be continuously, considering the different types of activities, ensuring a balanced contribution of each one to the evaluation: attendance (30%) and home/class work presentation (40%) - Final work presentation (30%).

BIBLIOGRAPHY

The bibliography and references will be presented at each session.

TIMETABLE AND SECTIONS

Group	Teacher	Department
Ed: 1	Francesc Lozano Winterhalder	Society, Politics and Sustainability

Timetable Ed: 1

Group	Teacher	Department
Ed: 2	Francesc Lozano Winterhalder	Society, Politics and Sustainability

Timetable Ed: 2
