

**5 ECTS**

**Introduction & Objectives**

This course will be divided into 3 parts : digital transformation, sustainable production and circular economy.

The Digital Transformation module is designed to :

- (1) introduce what transformation digital is
- (2) think about how a company will be able to transform digitally : methodology and tools

The Circular economy module is designed to:

- (1) Understand what is circular economy
- (2) Think on how it can be implemented into Business model

The Sustainable production module is designed to:

- (1) Understand what is sustainable supply chain
- (2) How it can be implemented from the sourcing to the delivery passing by the production and including the reverse logistics

**Learning content**

Digital Transformation :

- (1) definition, pros and cons, the jobs,
- (2) methodology and tools to implement the transformation

Circular Economy

- (1) Definition, principles, benefits, challenges.
- (2) Overview of the circular in different sectors; food, fashion, plastics, recycling, cities, design... Cradle to cradle concept

Sustainable production

- (1) Introduction to the supply chain and it's strategic decision.
- (2) Establish sustainability expectations for the supply chain, the power of industry collaboration and multi-stakeholder partnerships
- (3) For each main activity in the supply chain, understand how the sustainability management can be implemented: product conception, sourcing, production, warehousing, inventory management, distribution, transport, reverse logistics...

## **Learning Outcome**

At the end of the Module, the student must show he is able to:

- Understand what digital transformation is
- Develop a methodology to help a company implement this transformation
- Understand what circular economy is
- Develop innovative thinking on how to convince and implement circular economy concepts in different business sectors
- Understand what Sustainable Supply Chain is
- Develop innovative thinking on how to establish sustainable supply chain goals in a company or organisation

## **Methodology**

A mix of:

- Learning sessions at EPHEC: theoretical aspects, presentations, case studies
- Field visits and testimony
- Presentation by the student

## **Learning material**

Slides, videos, visits, testimony/conferences

## **Evaluation**

100% Final exam