

Eco- Innovation in Circular Economy

• Objectives

The course introduces key environmental sustainability theories, models and frameworks with focus on eco-innovation and the circular economy as a systems-based concept, aiming to design out waste and pollution. Drawing from case-study organisations and industries with a detrimental environmental impact, the course invites students to generate and select viable eco-innovations which work towards circularity and reduce environmental impact with a make-use-dispose business model.

• Outcomes

CLO1: *Reflect* upon theories and concepts underpinning eco-innovation and the circular economy.

CLO2: *Evaluate* current industry practices in relation to eco-innovation and the circular economy.

CLO3: *Identify* the challenges and problems encountered by businesses wishing to adopt a more environmentally friendly approach.

CLO4: *Apply* alternative business models and solutions for the reduction of environmental impact

• Course Code MGT-815

• Credit hours: 3CHrs

• Contents with proposed contact hours

- Introduction to Circular Economy
- The Problem
- Circular Economy Theories
- Circular Economy Theories contd.
- Eco-Innovation & Circularity
- Role of Technology in Circularity
- Design and System Thinking
- Eco-designs
- CE Business Models
- CE Business Models Contd.
- Circular Pivot and Feasibility
- Leading change

- Role of Policy Makers & Financial Services
- **Recommended reading, including textbooks, reference books with dates**
 - The Circular Economy: A User Guide (2019) by Walter R. Stahel.
 - The Circular Economy Handbook: Realizing the Circular Advantage by Peter Lacy, Jessica Long and Wesley Spindler.
 - Sustainable Economics: Context, Challenges and Opportunities for the 21st-Century Practitioner (2015) by Keith Skene, Alan Murray.
 - The Guide to the Circular Economy: Capturing Value and Managing Material Risk by Dustin Benton, Jonny Hazell, Julie Hill
- **Nature of Assessments**

Class lectures, Projects, Guest speaker sessions, Case studies