

## Circular Economy Core Principle and Concepts (DL)

|                |                                       |
|----------------|---------------------------------------|
| Module Code:   | OIM7018-B                             |
| Academic Year: | 2018-19                               |
| Credit Rating: | 20                                    |
| School:        | School of Management                  |
| Subject Area:  | Operations and Information Management |
| FHEQ Level:    | FHEQ Level 7 (Masters)                |

Pre-requisites:

Co-requisites:

### Contact Hours

| Type      | Hours |
|-----------|-------|
| Lectures  | 184   |
| Tutorials | 16    |

### Availability Periods

| Occurrence | Location/Period                                 |
|------------|-------------------------------------------------|
| DLA        | University of Bradford / Semester 2 (Feb - May) |
| DLB        | University of Bradford / Semester 2 (Feb - May) |
| DLC        | University of Bradford / Semester 2 (Feb - May) |
| DLD        | University of Bradford / Semester 2 (Feb - May) |

### Module Aims

To develop understanding of the core concepts and principles of 'circular economy' including in relation to your professional roles and forward career plans. To provide you with an opportunity to use and apply circular economy concepts, systems thinking, constructs and framework, in support of business problem appraisal and decision making.

### Outline Syllabus

Circular Economy, historical origins, overall principles and concepts:  
Systems thinking: Complexity, feedback, Systems optimisation Tipping points, and

Unintended consequences.  
Language and framing  
Natural and living systems, Biomimicry  
Biological and technical nutrients and Cradle to cradle  
Waste as feedstock  
Energy and renewables  
The role of money, finance and regulation in a circular economy  
Product-service design ethos,  
Performance and service, Innovation and enterprise

## **Module Learning Outcomes**

*On successful completion of this module, students will be able to...*

- 1      LO1 Review and evaluate key concepts, principles and issues and circular economy thinking and action  
         LO2 Determine the significance of factors such as regulations and standards affecting the take up of circular economy principles in a range of settings  
         LO3 Review and evaluate patterns of thought and conditioning underpinning linear vs complexity  
         LO4 Specify key elements of systems and feedback loops with specific reference to ecological systems  
         LO5 Evaluate the differences and implications of systems vs non-systems based approaches
- 2      LO7 Critically appraise a circular economy case study and assess its potential translation into a new or different setting  
         Review and redesign a system based on principles of circularity versus a linear based approach  
         LO9 Appraise a business problem or scenario from a system optimisation or a balancing design strategy
- 3      LO10 Assemble, co-ordinate and review complex stakeholder, legal, financial and technical information and be able to form sound and reasoned judgements in light of uncertainty, risk and opportunity creation  
         LO11 Communicate clearly the key principles of the circular economy in a written format  
         LO12 Generate a report to communicate clear findings from a circular economy case-study investigation

## **Learning, Teaching and Assessment Strategy**

You will engage in learning through a series of directed study activities and online tutorials. Study guide and text book readings, supported by audio recordings and powerpoint slides will introduce important concepts.

Structured tutorial exercises will provide you with the opportunity to develop your understanding of key concepts and ideas.

Online tutorial sessions will enable you to engage in debate with your peers and tutor about important ideas and contemporary business problems.

Assessment will be by two assignments. One focused on knowledge and understanding and one on subject specific and personal transferable skills.

## Mode of Assessment

| Type      | Method     | Description                                      | Length | Weighting | Final Assess' |
|-----------|------------|--------------------------------------------------|--------|-----------|---------------|
| Summative | Coursework | Individual written assignment (up to 2000 words) |        | 50%       | Yes           |
| Summative | Coursework | Individual written assignment (up to 2000 words) |        | 50%       | No            |

## Legacy Code (if applicable)

MAN4331D

## Reading List

To view Reading List, please go to [rebus:list](#).