**UNIVERSITY of BRADFORD**

| Module Details | |
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| Module Title | Supply Chain Management and Production |
| Module Code | ENB7008-B |
| Academic Year | 2021/2 |
| Credits | 20 |
| School | Department of Mechanical and Energy Systems Engineering |
| FHEQ Level | FHEQ Level 7 |

| Contact Hours | |
|---|---|
| Type | Hours |
| Lectures | 20 |
| Tutorials | 20 |
| Directed Study | 160 |

| Availability | |
|---|---|
| Occurrence | Location / Period |
| BDA | University of Bradford / Semester 1 |

| Module Aims |
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| 1. To develop a comprehensive and in-depth knowledge on operations and supply chain management with a strong focus on sustainability aspects. A strategic perspective will be adopted throughout this module.<br>2. To analyse globalisation, sustainability and technological aspects influencing the performance of operations and the supply network. |

| Outline Syllabus |
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| N/A |

## Learning Outcomes

| Outcome Number | Description |
| --- | --- |
| 01 | Critically analyse the framework of operations and supply chain management. |
| 02 | Apply lean principles to operations and supply chain management. . |
| 03 | Explain how new technologies support operations and supply chain management, including the concept of Industry 4.0. |
| 04 | Evaluate sustainability issues in operations and the supply chain. |
| 05 | Examine the principles of marketing, the global market environment, the impact of customer behaviour, and customer relationship management. |
| 06 | Apply data presentation skills, apply communication and oral presentation skills, develop ICT skills, develop problem solving skills, work in teams effectively and develop self-learning ability |

## Learning, Teaching and Assessment Strategy

1. The module is delivered through a series of online and face-to-face lectures and tutorials, supported by appropriate case study material. The learning materials (both lecture notes and case study) use a coherent problem-based approach, introducing management issues and tools and approaches to address these.
2. Online lectures are supported with online tutorial sessions in which case studies are analysed. Face-to-face lectures and tutorials offer the opportunity to reinforce learning. These provide the opportunity to undertake guided reading to understand and address a variety of operations and supply chain management issues. Face-to-face tutorial sessions promote the development of oral presentation, e-learning, peer feedback and self-learning. Formative feedback is provided after each presentation in the tutorials.
3. Directed study hours are dedicate to self-study, reading study materials before lectures and tutorials, research and preparation of coursework.

Summative assessment is through coursework as an individual report (3000 words) to analyse current and future challenges in operations and supply chain management. The report includes a detailed analysis of a case study from industry to illustrate those challenges. Sustainability issues are also analysed. LO1, LO3, LO4, LO6. Formative feedback is provided during oral presentations in tutorials. LO1, LO2, LO3, LO4, LO5, LO6.

This module satisfies the below Learning Outcomes as specified by the Accreditation of Higher Education Programmes: Third Edition (AHEP3) as published by The Engineering Council in-line with the UK Standard for Professional Engineering Competence (UK-SPEC). These outcomes specify six key areas of learning: Science and Mathematics (SM), Engineering Analysis (EA), Design (D), Economic, Legal, Social, Ethical and Environmental Context (EL), Engineering Practice (P) and Additional General Skills (G).
SM1m, SM2m, SM3m, SM4m, SM6m, EA5m, D4, D5, D8m, EL1m, EL2, EL3m, EL4, EL5m, EL6m, P1, P5, P7, P10m, G1, G4, EL8M, EL9M, EL10M, EL11M, EL12M, EL13M.
Further details of these learning outcomes can be found at https://www.engc.org.uk/.

## Mode of Assessment

| Type | Method | Description | Weighting |
| --- | --- | --- | --- |
| Summative | Coursework | Report analysing current and future challenges in operations and supply chain management. Report to include detailed an | 100% |
| Formative | Presentation | 10 oral presentations in tutorial sessions | N/A |

| Reading List |
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| To access the reading list for this module, please visit https://bradford.rl.talis.com/index.html |

*Please note:*
*This module descriptor has been published in advance of the academic year to which it applies. Every effort has been made to ensure that the information is accurate at the time of publication, but minor changes may occur given the interval between publishing and commencement of teaching. Upon commencement of the module, students will receive a handbook with further detail about the module and any changes will be discussed and/or communicated at this point.*