1. **Title of the module**

BUSN9320 (CB932) Operations Management and Digital Transformation

1. **School or partner institution which will be responsible for management of the module**

Kent Business School

1. **The level of the module (Level 4, Level 5, Level 6 or Level 7)**

Level 7

1. **The number of credits and the ECTS value which the module represents**

15 credits (7.5 ECTS)

1. **Which term(s) the module is to be taught in (or other teaching pattern)**

Autumn

1. **Prerequisite and co-requisite modules**

None

1. **The programmes of study to which the module contributes**

MSc Logistics and Supply Chain Management.

1. **The intended subject specific learning outcomes.  
   On successfully completing the module students will be able to:**

8.1 Demonstrate comprehensive understanding of operations management theories and techniques and how operations are being transformed by digital technologies.

8.2 Demonstrate creativity and originality in applying a variety of techniques and analysis frameworks to make informed decisions on operations strategy and lead digital transformation in businesses.

8.3 Systematically employ different approaches to operations design and effectively contribute to the organisation’s objectives

8.4 Comprehend the challenges of operations management to leverage the principles of Industry 4.0 to drive efficiency into the creation and delivery of products and services.

8.5 Through case study and exercise work, be able to investigate problems, evaluate solutions and present recommendations for operations design, delivery and development.

1. **The intended generic learning outcomes.  
   On successfully completing the module students will be able to:**

9.1 Demonstrate self-direction and originality in tackling and solving problems

9.2 Work and study independently and demonstrate learning through argumentative discussions on operations management theory and practice

9.3 Demonstrate integrative capability to negotiate and co-ordinate or eventually lead a team of multifunctional individuals.

9.4 Demonstrate analytical skills necessary for the analysis of problems and the identification of appropriate solutions.

9.5 Critically evaluate and interpret information from a variety of sources to formulate and support a well-reasoned and structured line of argument;

1. **A synopsis of the curriculum**

The operations management function has always been of vital importance in a wide variety of organisations and industries whether manufacturing- or service-oriented, public or private, small or large. With the rise of Industry 4.0, managers are expected to continuously optimise operations to enable even faster, more flexible, and more efficient processes to create and deliver higher-quality goods and services at reduced costs. This digital revolution means that operations managers need to be prepared to face extraordinary levels of complexity and competitive pressures. Indicative topics include:

1. Provide with fundamental knowledge in operations management and understanding of how operations are being transformed by digital technologies, such as Blockchain, IoT, Big data, Cloud computing, driverless vehicles and 3D printing.
2. Inform and debate how operations management can deliver real competitive advantage by managing and leading digital transformation in businesses
3. Discuss the challenges of operations management to leverage the principles of Industry 4.0 to drive efficiency into the creation and delivery of products and services
4. **Reading list (Indicative list, current at time of publication. Reading lists will be published annually)**

Cordon, C., Garcia-Milà, P., Vilarino, T. F., Caballero, P. (2016), *Strategy is Digital: How Companies Can Use Big Data in the Value Chain,* Springer

Hill, A. and Hill, T. (2017), *Essential Operations Management,* Palgrave Macmillan

Ustundag, A and Cevikcan, E. (2018), *Industry 4.0: Managing The Digital Transformation*, Springer

1. **Learning and teaching methods**

Total contact hours: 24

Private study hours: 126

Total study hours: 150

1. **Assessment methods**
   1. Main assessment methods

Group Presentation (20%)

Individual written report (3000 words) (80%).

13.2 Reassessment methods

Reassessment Instrument: 100% coursework.

1. **Map of module learning outcomes (sections 8 & 9) to learning and teaching methods (section12) and methods of assessment (section 13)**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Module learning outcome** | *8.1* | *8.2* | *8.3* | *8.4* | *8.5* | *9.1* | *9.2* | *9.3* | *9.4* | *9.5* |
| **Learning/ teaching method** |  |  |  |  |  |  |  |  |  |  |
| Private Study | **x** | **x** | **x** | **x** | **x** |  | **x** |  | **x** | **x** |
| Lectures | **x** | **x** | **x** | **x** | **x** |  |  |  |  |  |
| Seminars | **x** | **x** | **x** | **x** | **x** | **x** |  | **x** | **x** | **x** |
| **Assessment method** |  |  |  |  |  |  |  |  |  |  |
| Group Presentation | **x** | **x** | **x** | **x** | **x** | **x** |  | **x** | **x** | **x** |
| Individual Report | **x** | **x** | **x** | **x** | **x** |  | **x** |  | **x** | **x** |

1. **Inclusive module design**

The School recognises and has embedded the expectations of current equality legislation, by ensuring that the module is as accessible as possible by design. Additional alternative arrangements for students with Inclusive Learning Plans (ILPs)/declared disabilities will be made on an individual basis, in consultation with the relevant policies and support services.

The inclusive practices in the guidance (see Annex B Appendix A) have been considered in order to support all students in the following areas:

a) Accessible resources and curriculum

b) Learning, teaching and assessment methods

1. **Campus(es) or centre(s) where module will be delivered**

Canterbury

1. **Internationalisation**

The focus of this module is explicitly linked to globalisation within organisations and this is reflected throughout in the content, learning outcomes and related assessment.

**FACULTIES SUPPORT OFFICE USE ONLY**

**Revision record – all revisions must be recorded in the grid and full details of the change retained in the appropriate committee records.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date approved | Major/minor revision | Start date of the delivery of revised version | Section revised | Impacts PLOs (Q6&7 cover sheet) |
| 25/02/2016 | Minor | September 2016 | 1, 7, 12, 13, 14 |  |
| 27/01/2019 | Major | September 2019 | 1, 8, 9, 10, 11, 13 |  |

Revised FSO Jan 2018