

Module Details	
Module Title	Supply Chain Analytics and Technology Management
Module Code	OIM7504-B
Academic Year	2021/2
Credits	20
School	School of Management
FHEQ Level	FHEQ Level 7

Contact Hours	
Type	Hours
Online Lecture (Synchronous)	6
Online Seminar (Synchronous)	2
Seminars	4
Laboratories	12
Lectures	18
Directed Study	158

Availability	
Occurrence	Location / Period
BDA	University of Bradford / Semester 2

Module Aims
To critically evaluate supply chain analytics tools. The increasing role of information technologies in the design and operation of modern supply chains will be analysed. You will be equipped with practical knowledge of using different open source analytical software, such as 'R'.

## Outline Syllabus

The module will cover topics such as:

- \* Emerging Technologies (such as Blockchain, 3D Printing)
- \* Digital Supply Chains
- \* Supply Chain Optimization Technology Applications
- \* Predictive Analytics in Supply Chains
- \* Logistics Planning and Modelling
- \* Inventory management, warehousing, storage and intelligent systems
- \* Future of Fleet Management (autonomous vehicle)
- \* Use of R programming for Supply Chain

## Learning Outcomes

Outcome Number	Description
01	Critically appraise different analytics tools;
02	Critically evaluate innovation in supply chains;
03	To achieve competence in using supply chain analytics software;
04	To achieve competence in IT and writing reports.

## Learning, Teaching and Assessment Strategy

Learning will be directed, supported and reinforced through a combination of online lectures, face to face and online computer labs and tutorials, discussion groups, directed and self-directed study. Formative assessment will be provided throughout the course. To assess against the Learning Outcomes, varied assessment methods will be used such as network design using analytics software; and reports as described in the assessment section.

Summative Assessment -

You will produce a two part report in which you conduct a critical literature review and design a supply network, as well as write a reflective portfolio. This will count for 100% of your overall mark.

## Mode of Assessment

Type	Method	Description	Weighting
Summative	Coursework - Written	Case study: design the supply network and produce a report and reflective portfolio.	100%
Formative	Not assessed	Formative feedback will be provided on the draft outline of coursework based summative assessments. 300 words	N/A

## Reading List

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.*

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