

University of the West of Scotland

Module Descriptor

Session: 2024/25

Title of Module: Supply Chain Analytics			
Code:	SCQF Level: 11 (Scottish Credit and Qualifications Framework)	Credit Points: 20	ECTS: 10 (European Credit Transfer Scheme)
School:	School of Business and Creative Industries		
Module Co-ordinator:	Salman Ahmad		
Summary of Module			
Supply chains typically generate massive amount of data. In this module, students will learn how to make sense of this data by utilising various presentation forms with an aim of generating insights for the decision-makers. The module will develop an understanding of analytics and its application in Logistics & Supply chain management They will develop the knowledge and skills in various approaches/types of analytics. Finally, students will learn to communicate analytics at various levels of management.			

Module Delivery Method					
Face-To-Face	Blended	Fully Online	HybridC	Hybrid 0	Work-Based Learning
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
See Guidance Note for details.					

Campus(es) for Module Delivery						
The module will normally be offered on the following campuses / or by Distance/Online Learning: (Provided viable student numbers permit) (tick as appropriate)						
Paisley:	Ayr:	Dumfries:	Lanarkshire:	London:	Distance/Online Learning:	Other:
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Add name

Term(s) for Module Delivery
(Provided viable student numbers permit).

Term 1	☒	Term 2	☒	Term 3	☒
--------	---	--------	---	--------	---

<p>Learning Outcomes: (maximum of 5 statements) These should take cognisance of the SCQF level descriptors and be at the appropriate level for the module. At the end of this module the student will be able to:</p>	
L1	Develop a critical understanding of the principal theories, concepts and principles of data analytics within the context of Logistics & Supply chain management.
L2	Develop critical thinking and problem-solving skills through the exploration of real-world applications of analytics in logistics and supply chain management through case studies, examples, and discussions.
L3	Develop and demonstrate critical understanding of analytics methodologies by application to problems in supply chain management.
L4	
L5	Click or tap here to enter text.
<p>Employability Skills and Personal Development Planning (PDP) Skills</p>	
SCQF Headings	During completion of this module, there will be an opportunity to achieve core skills in:
Knowledge and Understanding (K and U)	<p>SCQF Level 11</p> <p>Demonstrating a broad and integrated knowledge and critical understanding of analytics in Logistics & Supply chain management functions and processes.</p> <p>The development of a critical understanding of the key tools of analysis used for decision-making in the area.</p>
Practice: Applied Knowledge and Understanding	<p>SCQF Level 11</p> <p>Applying knowledge, skills and understanding on a wide range of analytical practices, tools, and techniques to deal with contemporary logistics and supply chain management challenges.</p> <p>Apply a range of techniques of enquiry and research.</p> <p>Executing a defined project of research or investigation and identifying relevant outcomes using analytical tools.</p>
Generic Cognitive skills	SCQF Level 11

	<p>Applying critical analysis, evaluation and synthesis on a given supply chain challenging situations.</p> <p>Critically reviewing and making informed judgements when information is inconsistent or incomplete</p> <p>Develop consultative approach on each core areas of supply chain decisions.</p>	
Communication, ICT and Numeracy Skills	<p>SCQF Level 11</p> <p>Presenting decisions on the appropriate use of analytical techniques and processes to a range of audiences with different level of knowledge/expertise.</p> <p>Undertake a critical evaluation of a wide range of numerical and graphical data in the logistics and supply chain management domain.</p>	
Autonomy, Accountability and Working with others	<p>SCQF Level 11</p> <p>Exercising substantial autonomy and initiative in studies.</p> <p>Working with others in a team context and accepting accountability for the decisions of the collective group</p> <p>Using realistic business scenarios to work independently and/or in group settings to identify appropriate data sources, tools and methods to domains of Logistics and Supply chain management to generate insights.</p>	
Pre-requisites:	Before undertaking this module the student should have undertaken the following:	
	Module Code:	Module Title:
	Other:	
Co-requisites	Module Code:	Module Title:

*Indicates that module descriptor is not published.

Learning and Teaching
<p>In line with current learning and teaching principles, a 20-credit module includes 200 learning hours, normally including a minimum of 36 contact hours and maximum of 48 contact hours.</p> <p>The delivery strategy will focus on adopting a student-centric and directed learning approach. This methodology will provide the foundation on which the students learning will be built through the face-to-face workshops. The workshops will have no</p>

<p>more than 40 students and no more than 20 in a laboratory work. Prior to attending these workshops sessions, students will engage in preparatory work, setting the stage for in-depth exploration and contextualization within various scenarios. The workshops will be enquiry based with structure and unstructured activities. The students will be expected to take responsibility for their direction of learning.</p>	
<p>Learning Activities During completion of this module, the learning activities undertaken to achieve the module learning outcomes are stated below:</p>	<p>Student Learning Hours (Normally totalling 200 hours): (Note: Learning hours include both contact hours and hours spent on other learning activities)</p>
Laboratory/Practical Demonstration/Workshop	36
Independent Study	164
Choose an item.	
	Hours Total 200
<p>**Indicative Resources: (eg. Core text, journals, internet access)</p>	
<p>The following materials form essential underpinning for the module content and ultimately for the learning outcomes:</p> <p>Hillier, F.S., & Hillier, M.S., (2019) Introduction to Management Science: A Modeling and Case Studies Approach with Spreadsheets, 6th edn, Lonon: Mc Graw Hill</p> <p>Watson, M., & Nelson, D. (2014). Managerial Analytics: An Applied Guide to Principles, Methods, Tools, and Best Practices. Pearson</p>	
<p>(**N.B. Although reading lists should include current publications, students are advised (particularly for material marked with an asterisk*) to wait until the start of session for confirmation of the most up-to-date material)</p>	
<p>Attendance and Engagement Requirements</p>	
<p>In line with the Student Attendance and Engagement Procedure: Students are academically engaged if they are regularly attending and participating in timetabled on-campus and online teaching sessions, asynchronous online learning activities, course-related learning resources, and complete assessments and submit these on time.</p>	

Equality and Diversity
The University's Equality, Diversity and Human Rights Procedure can be accessed at the following link: UWS Equality, Diversity and Human Rights Code .
(N.B. Every effort will be made by the University to accommodate any equality and diversity issues brought to the attention of the School)

Supplemental Information

Divisional Programme Board	
Assessment Results (Pass/Fail)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
School Assessment Board	MITE
Moderator	
External Examiner	Format: First initial + Surname. No titles. Please only enter if examiner has been approved for this module.
Accreditation Details	e.g. ACCA <small>Click or tap here to enter text.</small>
Changes/Version Number	1

Assessment: (also refer to Assessment Outcomes Grids below)
Portfolio of written work
(N.B. (i) Assessment Outcomes Grids for the module (one for each component) can be found below which clearly demonstrate how the learning outcomes of the module will be assessed. (ii) An indicative schedule listing approximate times within the academic calendar when assessment is likely to feature will be provided within the Student Module Handbook.)

Assessment Outcome Grids (See Guidance Note)

Component 1							
Assessment Type (Footnote B.)	Learning Outcome (1)	Learning Outcome (2)	Learning Outcome (3)	Learning Outcome (4)	Learning Outcome (5)	Weighting (%) of Assessment Element	Timetabled Contact Hours
Portfolio of written work	✓	✓	✓	n/a	n/a	100	0

Component 2							
Assessment Type (Footnote B.)	Learning Outcome (1)	Learning Outcome (2)	Learning Outcome (3)	Learning Outcome (4)	Learning Outcome (5)	Weighting (%) of Assessment Element	Timetabled Contact Hours

Component 3							
Assessment Type (Footnote B.)	Learning Outcome (1)	Learning Outcome (2)	Learning Outcome (3)	Learning Outcome (4)	Learning Outcome (5)	Weighting (%) of Assessment Element	Timetabled Contact Hours
Combined Total for All Components						100%	XX hours

Change Control:

What	When	Who
Further guidance on aggregate regulation and application when completing template	16/01/2020	H McLean
Updated contact hours	14/09/21	H McLean
Updated Student Attendance and Engagement Procedure	19/10/2023	C Winter
Updated UWS Equality, Diversity and Human Rights Code	19/10/2023	C Winter
Guidance Note 23-24 provided	12/12/23	D Taylor
General housekeeping to text across sections.	12/12/23	D Taylor

Version Number: MD Template 1 (2023-24)