

## **Module Descriptor**

Title	Al Innovation an	Al Innovation and Business Analytics					
Session	2025/26	Status	New				
Code	MARK08XXX	SCQF Level	8				
Credit Points	20	ECTS (European Credit Transfer Scheme)	10				
School	Business and Cr	Business and Creative Industries					
Module Co- ordinator	M. Frew						

#### **Summary of Module**

This module is designed to explore the transformative role of artificial intelligence (AI) and data analytics in enhancing business functions, innovations, and sustainable growth. The module focuses on how AI and data analytics transforms business through data-driven decision-making and across managerial to key operational and market functions.

Students will engage with applied AI analytics within a series of business cases and functional scenarios such as data management, finance, marketing, organisational development to product innovation and market evaluation. With an emphasis on real-world applications and assessment students will be equipped with the theoretical and practical knowledge and skills of industry-relevant AI and data analytics. Moreover, students will have a deeper understanding and applied appreciation of the central role AI and data analytics plays in revolutionising business.

Module Delivery Method	On- Campus¹ ⊠	Hybrid² ⊠	Online³ □	Work - Based Learning⁴
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<sup>&</sup>lt;sup>1</sup> Where contact hours are synchronous/ live and take place fully on campus. Campus-based learning is focused on providing an interactive learning experience supported by a range of digitally-enabled asynchronous learning opportunities including learning materials, resources, and opportunities provided via the virtual learning environment. On-campus contact hours will be clearly articulated to students.

<sup>&</sup>lt;sup>2</sup> The module includes a combination of synchronous/ live on-campus and online learning events. These will be supported by a range of digitally-enabled asynchronous learning opportunities including learning materials, resources, and opportunities provided via the virtual learning environment. On-campus and online contact hours will be clearly articulated to students.

<sup>&</sup>lt;sup>3</sup> Where all learning is solely delivered by web-based or internet-based technologies and the participants can engage in all learning activities through these means. All required contact hours will be clearly articulated to students.

<sup>&</sup>lt;sup>4</sup> Learning activities where the main location for the learning experience is in the workplace. All required contact hours, whether online or on campus, will be clearly articulated to students

Campuses for Module Delivery	⊠ Ayr ⊠ Dumfri	es	<ul><li>☑ Lanarkshire</li><li>☑ London</li><li>☑ Paisley</li></ul>		☐ Online / Distance Learning ☐ Other (specify)	
Terms for Module Delivery	Term 1		Term 2 ⊠		Term 3	
Long-thin Delivery over more than one Term	Term 1 - Term 2		Term 2  – Term 3		Term 3 – Term 1	

Lea	rning Outcomes
L1	Demonstrate an understanding of the role of AI in business analytics and its applications within core business functions.
L2	Identify and apply analytical AI tools across an array of business cases and practical operational scenarios.
L3	Evaluate AI data analytics applications and implement AI-powered solutions for business solutions, market insight, innovation and development.
L4	N/A
L5	N/A

Employability Skills and Personal Development Planning (PDP) Skills				
During completion of this module, there will be an opportunity to achieve core skills in:				
SCQF Level 8				
Demonstrate detailed knowledge of AI applications within business analytics, covering a range of sectors and functions. Show familiarity with key AI concepts, theories, and the role of data science in business.				
SCQF Level 8				
Apply analytical AI applications to real-world business cases and scenarios that supports business strategy, operational efficiency and effectiveness.				
SCQF Level 8				
Evaluate and interpret AI applications and analytics models that will enhance data-driven decision-making for business innovation and market insights.				
SCQF Level 8				
Communicate AI and data analytics core concepts clearly and effectively by drawing upon a series of digital, social and visualisation technologies and techniques.				
SCQF Level 8				
Demonstrate responsibility in independent learning through collaborative and co-created project work, taking responsibility				

and accountability for individual contributions and collective
project work.

Prerequisites	Module Code N/A	Module Title
	Other	
Co-requisites	Module Code N/A	Module Title

### **Learning and Teaching**

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.

This module's teaching and learning strategy (TLS) is designed to mirror innovative and transformational theoretical underpinning and practical focus of the programme. Therefore, and echoing and developing our Accelerated and Immersive Educational model, we adopt a co- created cybergogical approach where learning is liquid and incorporates 'presence education'.

This means module content, engagement and delivery moves beyond hybrid models to integrate cloud-based 2D multi-media with 3D virtual to extended reality as this is seen to 'give students access to situated/experiential learning that would not be possible in traditional classroom settings' and 'improves the acquisition and retention of skills and encourages empathetic learning'.

Therefore, this TLS is designed to deliver an agile, responsive, student-centred and empowering educational experience. Importantly, this digitally deep, vibrant and 2D to 3D virtual approach speaks to the dynamic lifestyles of modern students. Moreover, the fluidity, presence, and co-creation of this cybergogy approach, enhances opportunities for the delivery of compressed or accelerated content, which can be repurposed and repackaged for nano-micro-macro product delivery. As such this reimagines widening access, opening education up to the geographically, economically or physically locked whilst enhancing the efficiency and effectiveness of the model overall.

Learning Activities  During completion of this module, the learning activities undertaken to achieve the module learning outcomes are stated below:	Student Learning Hours  (Note: Learning hours include both contact hours and hours spent on other learning activities)		
Lecture/Core Content Delivery	24		
Workshop/Laboratory/Practical Demonstration	24		
Asynchronous Class Activity	30		
Independent Study	122		
TOTAL	200		

#### **Indicative Resources**

# The following materials form essential underpinning for the module content and ultimately for the learning outcomes:

Daugherty, P. R. and Wilson, H. J. (2018). Human + Machine: Reimagining Work in the Age of Al. Boston: Harvard Business Review Press

Davenport, T. H. (2019). The Al Advantage: How to Put the Artificial Intelligence Revolution to Work. Cambridge, MA: MIT Press.

Ganesan, K. (2022). The Business Case for AI: A Leader's Guide to AI Strategies, Best Practices & Real-World Applications. Amazon.

Iansiti, M. and Lakhani, K. R. (2020). Competing in the Age of AI: Strategy and Leadership When Algorithms and Networks Run the World. Boston: Harvard Business Review Press.

McAfee, A. and Brynjolfsson, E. (2018). "Artificial Intelligence, for Real", Harvard Business Review, 96(4), pp. 108-116.

Marr, B. (2019). Artificial Intelligence in Practice: How 50 Companies Used Al and Machine Learning to Solve Problems. Hoboken, NJ: Wiley.

Rose, D. (2021). Artificial Intelligence for Business: What You Need to Know About Machine Learning and Neural Networks (Pearson Business Analytics Series). Pearson.

Sharda, R., Delen, D., and Turban, E. (2020). Analytics, Data Science, & Artificial Intelligence: Systems for Decision Support, 11th edn. Boston: Pearson.

Details of further resources, including textbooks, journals and online resources will be identified at the beginning of each delivery in the module handbook and made available via the VLE.

(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)

# **Attendance and Engagement Requirements**

In line with the <u>Student Attendance and Engagement Procedure</u>, 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.

# For the purposes of this module, academic engagement equates to the following:

The university is committed to providing a supportive learning environment that actively facilitates student success. In this module, there is a high degree of student-led flexibility. You are academically engaged if you are regularly engaged with scheduled live sessions on-campus and online, including engaging with online learning activities in your own time, course-related learning resources, and with timely completion and submission of assessments.

Whilst we understand that there may be times when conflicting priorities make participation challenging, for you to gain the most from this module it is recommended that you participate in all scheduled live classes and complete your self-directed learning activities in a timely manner.

It may be difficult to pass the assessment associated with this module if you are not regularly engaging with the module work and live classes. We may reach out to check how things are going and offer support if we observe that you have not been attending sessions or completing online activities.

# **Equality and Diversity**

The University's Equality, Diversity and Human Rights Procedure can be accessed at the following link: <a href="UWS Equality">UWS Equality</a>, Diversity and Human Rights Code.

In line with current legislation (Equality Act, 2010) and the UWS Equality, Diversity, and Human Rights Code, our modules are accessible and inclusive, with reasonable adjustment for different needs where appropriate. Module materials comply with University guidance on inclusive learning and teaching, and specialist assistive equipment, support provision and adjustment to assessment practice will be made in accordance with UWS policy and regulations. Where modules require practical and/or laboratory based learning or assessment required to meet accrediting body requirements the University will make reasonable adjustment such as adjustable height benches or assistance of a 'buddy' or helper.

(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	Marketing, Innovation, Tourism and Events
Overall Assessment Results	□ Pass / Fail ☑ Graded
Module Eligible for	⊠ Yes □ No
Compensation	If this module is eligible for compensation, there may be cases where compensation is not permitted due to programme accreditation requirements. Please check the associated programme specification for details.
School Assessment Board	MITE
Moderator	S Azzi
External Examiner	TBC
Accreditation Details	
Module Appears in CPD catalogue	☑ Yes □ No
Changes / Version Number	1

Assessment (also refer to Assessment Outcomes Grids below)					
Assessment 1					

40% Digitally prese business function of align with the guida	or innov	ation (e	e.g., fin	ance, n	narketin		•
Assessment 2							
60% Real-world dig challenges and crit Assessment Handb	ical lim			-			
Assessment 3							
(N.B. (i) Assessme can be found below module will be assetii) An indicative so when assessment Handbook.)	v which essed. :hedule	clearly	demor approxi	nstrate mate ti	how the	e learning outco	omes of the
Component 1	LO1	LO2	LO3	LO4	105	Waighting	Timetable
Assessment Type	LO1	LOZ	LO3	LO4	LO5	Weighting of Assessmen t Element (%)	d Contact Hours
Creative Output	×					40	
Component 2							
Assessment Type	LO1	LO2	LO3	LO4	LO5	Weighting of Assessmen t Element (%)	Timetable d Contact Hours
Practical Portfolio		×	×			60	
Component 3	_						
Assessment Type N/A	LO1	LO2	LO3	LO4	LO5	Weighting of Assessmen t Element (%)	Timetable d Contact Hours
Co	mbine	d total	for all	compo	nents	100%	hours
Change Control						1	1
What				Wh	nen	Who	