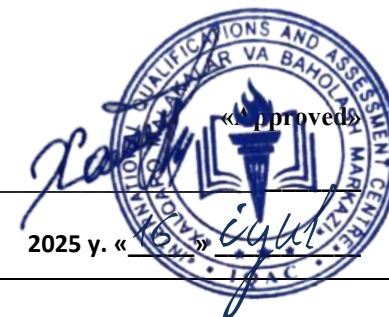




**INTERNATIONAL QUALIFICATIONS
AND ASSESSMENT CENTRE (IQAC)**



Programme	Level 7 Diploma in Data Science		
Unit Number/ Unit Title	UNIT 5 STRATEGIC DATA LEADERSHIP AND INNOVATION		
Cohort Code:	L07SDLI-U5		
Unit Level	Level 7		
Total GLH	Total qualification time 200/ Total Guided learning hours 90/ Self-guided learning hours 110		
Credits	20 CATS/ 10 ECTS		
Lecturer			
Start Date		End Date	

Unit Aims	<p>This unit prepares students for strategic leadership roles in data-driven organisations. It focuses on the intersection of data strategy, innovation, organisational change, and data governance. Students will learn to align data initiatives with business goals and lead cross-functional teams to create value through analytics and innovation.</p>
Differentiation Strategies <i>(e.g. planned activities or support for individual learners according to their needs)</i>	<p>The total number of students to be in the lesson is approximately 20. This is a multicultural group of students predominantly between the ages of 24 – 45, with numerous ethnic, gender, and creed background. These are UK academic level 5 students; hence it is assumed that they have practical, theoretical, or technological knowledge and understanding of a subject or field of work to find ways forward in broadly defined, complex contexts. These students must be able to generate information, evaluate, synthesise the use information from a variety of sources. Various approaches to addressing the various identified students needs will be adopted throughout the lesson. Such will include:-</p> <ol style="list-style-type: none">1. Progressive tasks2. Digital resources

	<ol style="list-style-type: none"> 3. Verbal support 4. Variable outcomes 5. Collaborative learning 6. Ongoing assessment 7. Flexible-pace learning
Equality & Diversity	Variety of teaching techniques will be employed to ensure that the needs of each individual learner are met.
Safeguarding & Prevent	Safeguarding policies and the Prevent duty are strictly observed to ensure the safety, well-being, and inclusivity of all students and staff.
Health & Safety	SIRM H&S policies will be maintained.
Learning Resources	Teaching and Learning Materials
	<ul style="list-style-type: none"> • Marr, B. (2019). Data Strategy: How to Profit from a World of Big Data, Analytics and the Internet of Things. Kogan Page. • Redman, T. (2018). The Data Driven Leader. Wiley. • Power, D. J. (2021). Data-Driven Decision Making and Digital Transformation. Business Expert Press. • McAfee, A., & Brynjolfsson, E. (2017). Machine, Platform, Crowd. W. W. Norton.

Learning Outcome	Assessment Criteria
LO1. Formulate data strategy aligned with business objectives.	Strategy Document: 1.1 Define components of a data-driven business strategy. 1.2 Evaluate alignment with organisational KPIs and vision.
LO2. Assess data governance and management practices.	Report: 2.1 Analyse data stewardship, quality, and access control. 2.2 Review compliance with data regulations (e.g., GDPR).
LO3. Develop frameworks for innovation and digital transformation.	Presentation: 3.1 Propose a roadmap for analytics-driven innovation. 3.2 Use change management models (e.g., Kotter, ADKAR).
LO4. Demonstrate leadership capabilities in managing data teams.	Reflective Portfolio: 4.1 Identify leadership styles suitable for analytics projects. 4.2 Reflect on personal leadership development and team management.

No	Learning Outcome / Topic	Learning and Teaching Activities	Which assessment criteria does the session relate to?	Day/month/year/ signature
1.	Introduction to Data Strategy	Introduction to Data Strategy Components: People, processes, technology, governance	LO1: Data Strategy & Business Alignment	
2.	Data-Driven Decision Making	Data-Driven Decision Making Case studies: Netflix, Amazon, Tesla	LO1: Data Strategy & Business Alignment	
3.	Aligning Data Strategy with Business Goals	Aligning Data Strategy with Business Goals OKRs (Objectives & Key Results), balanced scorecard	LO1: Data Strategy & Business Alignment	
4.	Assessing Organizational Data Maturity	Assessing Organizational Data Maturity CMMI, DAMA-DMBOK frameworks	LO1: Data Strategy & Business Alignment	
5.	Stakeholder Engagement	Stakeholder Engagement Bridging gaps between data teams and executives	LO1: Data Strategy & Business Alignment	
6.	Data Governance Frameworks	Data Governance Frameworks Roles (CDO, data stewards), policies, standards	LO2: Data Governance & Compliance	
7.	Data Quality Management	Data Quality Management Metrics (accuracy, completeness), root cause analysis	LO2: Data Governance & Compliance	
8.	Half-Term Exam	<ul style="list-style-type: none"> - Review of LO1 topics - Practice questions and mock assessment - Half-term assessment based on LO1 (theory) 	LO1 LO2	
9.	Master Data Management (MDM)	Master Data Management (MDM) Golden records, entity resolution	LO2: Data Governance & Compliance	

10.	Regulatory Compliance	Regulatory Compliance GDPR, CCPA, sector-specific laws (HIPAA, FINRA)	LO2: Data Governance & Compliance	
11.	Ethical Data Use	Ethical Data Use Bias mitigation, transparency, consent management	LO2: Data Governance & Compliance	
12.	Digital Transformation Roadmaps	Digital Transformation Roadmaps Phases: Digitization → Digitalization → Transformation	LO3: Innovation & Digital Transformation	
13.	Analytics-Driven Innovation	Analytics-Driven Innovation AI/ML use cases, predictive vs. prescriptive analytics	LO3: Innovation & Digital Transformation	
14.	Final Exam Preparation & Review	<ul style="list-style-type: none"> - Comprehensive review of all learning outcomes - Practice questions and revision of key topics 		
15.	Final Exam	<ul style="list-style-type: none"> - Final-term assessment covering all learning outcomes (theory and practical elements) 		
16.	Feedback & Reflection	<ul style="list-style-type: none"> - Review of final exam - Individual feedback on performance - Reflective discussion on key learning points 		
17.	Change Management Models	Change Management Models Kotter's 8-Step Process, ADKAR, McKinsey 7S	LO3: Innovation & Digital Transformation	
18.	Agile for Data Teams	Agile for Data Teams Scrum, Kanban, DataOps	LO3: Innovation & Digital Transformation	
19.	Measuring Innovation Impact	Measuring Innovation Impact ROI, time-to-value, customer-centric metrics	LO3: Innovation & Digital Transformation	

20.	Leadership Styles for Data Projects	Leadership Styles for Data Projects Servant, transformational, situational leadership	LO4: Leadership in Data Teams	
21.	Building High-Performance Data Teams	Building High-Performance Data Teams Skills mapping, upskilling, hybrid teams	LO4: Leadership in Data Teams	
22.	Conflict Resolution	Conflict Resolution Technical vs. business stakeholder alignment	LO4: Leadership in Data Teams	
23.	Half-Term Exam	Data Strategy Workshop Develop a strategy for a mock organization		
24.	Data Storytelling	Data Storytelling Influencing decisions with dashboards, narratives	LO4: Leadership in Data Teams	
25.	Personal Leadership Development	Personal Leadership Development 360° feedback, mentorship, continuous learning	LO4: Leadership in Data Teams	
26.	Regulatory Simulation	Regulatory Simulation GDPR compliance audit role-play	LO5: Capstone & Real-World Application	
27.	Innovation Pitch	Innovation Pitch Present a data-driven innovation to "executives"	LO5: Capstone & Real-World Application	
28.	Leadership Reflection	Leadership Reflection Personal SWOT analysis, growth plan	LO5: Capstone & Real-World Application	
29.	Final Exam Preparation & Review	LO1, LO2, LO3, LO4	LO1, LO2, LO3, LO4	
30.	Final Exam		LO1, LO2, LO3, LO4	