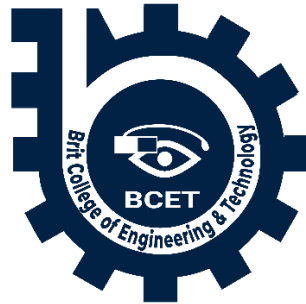


Brit College of Engineering & Technology (BCET)



Final Qualification: **Advanced Level 6 Graduate Diploma in Strategic Business Intelligence & Data Analytics**

◇ **1. Programme Outcome Framework (Aligned to Ofqual RQF Levels)**

Level 4 (Foundation – Knowledge & Understanding)

Learners will:

- Demonstrate **broad knowledge of computing, databases, programming, and business processes**
- Apply **basic analytical and technical skills** to structured problems
- Use **standard tools (SQL, Python, cloud platforms)** in controlled contexts
- Communicate technical information through **reports and presentations**

Level 5 (Intermediate – Application & Analysis)

Learners will:

- Apply **theoretical and practical knowledge** to solve business and IT problems
- Analyse and interpret **data for business decision-making**
- Develop **integrated digital solutions** (web, AI, dashboards)
- Demonstrate **project management, innovation, and entrepreneurial thinking**

Level 6 (Advanced – Critical Evaluation & Strategic Application)

Learners will:

- Critically evaluate and apply **advanced analytics, BI, and AI techniques**
- Design and implement **data-driven business strategies**
- Conduct **independent research and problem-solving**
- Communicate insights to **technical and non-technical stakeholders**
- Demonstrate **autonomy, leadership, and professional judgement**

◇ 2. Vertical Progression Mapping (L4 → L6)

Skill Area	Level 4	Level 5	Level 6
Knowledge	Fundamental concepts	Applied knowledge	Critical & strategic knowledge
Skills	Basic tools & techniques	Integration & analysis	Innovation & synthesis
Autonomy	Guided learning	Semi-independent	Fully independent
Problem Solving	Structured problems	Defined problems	Complex, ambiguous problems
Data Competency	Data handling	Data analysis	Predictive & strategic analytics

◇ 3. Assessment Strategy Alignment

The programme shows **strong constructive alignment**:

- **Level 4 → Knowledge Demonstration**
 - Reports, portfolios, structured tasks
- **Level 5 → Application & Analysis**
 - Projects, dashboards, case studies
- **Level 6 → Synthesis & Evaluation**
 - Consultancy reports, predictive models, dissertation

This progression aligns with:

- **Bloom's Taxonomy (Remember → Apply → Evaluate/Create)**
- **QAA Expectations for Level 6 (Honours level thinking)**

Qualification Specification:

Level 4 & 5 Advanced Diploma in Strategic Business Information Systems (SBIS) Leading to Advanced Level 6 Graduate Diploma in Strategic Business Intelligence & Data Analytics

Level: Level 4 & Level 5 (RQF standard)

Total Credits: 270 (140 at L4; 130 at L5)

Total Qualification Time (TQT): 2700 Hours

Guided Learning Hours (GLH): 1080 Hours

Target Sector: ICT, Business Management, and Data Analytics

Awarding Body: ISM Education UK

Skills Gap Justification

Traditional Computer Science degrees often focus on theory, while Business degrees overlook the technical architecture of data. This qualification hybridises these fields, focusing on:

- **Cloud Infrastructure:** Transitioning from legacy systems to AWS/Azure environments.
- **Data Governance:** Complying with GDPR and international data ethics.
- **Agile Management:** Using Scrum/Kanban in non-technical business units.

1. Programme Aims and Objectives

Overall Qualification Aims

The primary aim is to produce "Business-Technologists" capable of designing, implementing, and managing information systems that drive competitive advantage.

Specific Programme Objectives

1. To develop technical proficiency in **Python, SQL, and Cloud Architecture**.
2. To cultivate a strategic mindset regarding **E-commerce and Digital Entrepreneurship**.
3. To master the lifecycle of **Information Systems Project Management**.
4. To apply **Artificial Intelligence (AI)** solutions to real-world business bottlenecks.

Employability and Transferable Skills

Graduates will demonstrate "Day 1 Readiness" in:

- **Analytical Reasoning:** Interpreting complex data sets for stakeholders.
- **Digital Literacy:** Proficiency in enterprise-grade ERP and CRM tools.
- **Collaborative Problem Solving:** Working within DevOps and cross-functional teams.

2. Target Learners

Entry Requirements

- **Level 4:** A-Levels (or equivalent) or a Level 3 Diploma in IT/Business.
- **Level 5:** Completion of Level 4 SBIS or an equivalent 120-credit RQF L4 qualification.
- **Mature Learners:** Applicants (21+) with 3+ years of relevant work experience may be admitted via interview.

English Language Requirements

- IELTS 5.5 (with no band lower than 5.0) or equivalent Common European Framework of Reference (CEFR) Level B2.

Recognition of Prior Learning (RPL)

Learners may claim credit for modules if they hold industry certifications (e.g., Python Institute PCEP for Module 2) or have completed equivalent university-level credits, subject to an RPL portfolio review.

3. Qualification Structure

Level 4 & 5 Advanced Diploma in Strategic Business Information Systems (SBIS)

Credit Framework

This qualification utilises the RQF credit system: **1 Credit = 10 Learning Hours.**

Level 4 (Year 1): 140 Credits / 1400 TQT / 560 GLH

No.	Unit Title	Credits	Assessment (Assignment & Presentation)
1	Database Management Systems (Inc. Lab)	30	Case Study & SQL Portfolio
2	Programming Skills by Python (Inc. Lab)	30	Software Development Project
3	Introduction to Computers & Applications	30	Technical Report
4	Introduction to Business Processes	20	Business Process Map & Report
5	Enterprise System and Cloud Computing	30	Cloud Architecture Proposal

Level 5 (Year 2): 130 Credits / 1300 TQT / 520 GLH [Consider Unit No. 6, 8, 9, 10, 12 only, Highlighted in Green]

No.	Unit Title	Credits	Assessment (Assignment & Presentation)
6	Web Technologies (Front/Back End)	30	Full-stack Web Application
7	Professional IT Project Management	30	Project Management Plan (Agile)
8	Information Management and E-Business	30	Strategic Digital Audit
9	Data Analysis & Visualisation	20	Tableau/PowerBI Dashboard
10	E-Commerce	20	E-Commerce Strategy Report
11	Information Driven Entrepreneurship	30	Lean Startup Business Plan
12	Intro to AI and Data Science	30	Predictive Model & Research Paper
13	Artificial Intelligence Applications	30	AI Implementation Case Study

4. Assessment & Employability Matrix

This matrix maps each unit to the primary assessment method and the specific professional "hard" and "soft" skills the learner will demonstrate upon completion.

Unit No.	Unit Title	Primary Assessment Method	Key Employability Skills Developed
1	Database Management	SQL Portfolio & Schema Design	Database Administration (DBA), SQL, Data Integrity
2	Python Programming	Functional Software Code	Scripting, Automation, Logic, Debugging
3	Computer Applications	Infrastructure Config Report	IT Support, Network Troubleshooting, Virtualisation
4	Business Processes	BPMN Mapping & Case Study	Systems Thinking, Workflow Optimisation, BPR
5	Enterprise & Cloud	Cloud Migration Proposal	AWS/Azure Literacy, Cloud Security, SaaS Strategy

6	Web Technologies	Full-Stack Web App	HTML/CSS/JS, API Integration, Web Security
7	IT Project Mgmt	Agile Project Plan	Scrum Mastery, Jira/Trello, Stakeholder Mgmt
8	Information & E-Business	Strategic Digital Audit	GDPR Compliance, Digital Strategy, Governance
9	Data Visualisation	Interactive BI Dashboard	PowerBI/Tableau, Storytelling, Statistical Analysis
10	E-Commerce	E-Retail Strategy Report	UX Design, Payment Gateway Security, Digital Marketing
11	Entrepreneurship	Lean Startup Pitch Deck	Financial Modelling, Innovation, Public Speaking
12	Intro to AI & DS	Predictive Model Research	Data Science, Algorithmic Logic, Machine Learning
13	AI Applications	AI Implementation Roadmap	RPA, NLP, Ethical AI Policy, Strategic Automation

Qualification Specification:

Advanced Level 6 Graduate Diploma in Strategic Business Intelligence & Data Analytics

Institution: Brit College of Engineering & Technology (BCET)

Progression Route: Follow-on from the Level 4 & Level 5 Advanced Diploma in Strategic Business Information Systems (SBIS)

Or

Follow-on from the Level 4 & Level 5 Advanced Diploma in Strategic Software Engineering (SSE)

1. Qualification Overview

- **Programme Title:** Level 6 Business Intelligence & Data Analytics
- **Level:** Level 6 (RQF standard)
- **Total Credits:** 120 UK Credits (structured as 4 modules of 30 credits each, fulfilling the standard final-year BSc top-up requirement)
- **Total Qualification Time (TQT):** 1200 Hours
- **Guided Learning Hours (GLH):** 480 Hours
- **Target Sector:** Data Science, Business Intelligence, Decision Science, and Strategic IT Consultancy
- **Progression Pathways:** Graduates are primed for immediate entry into senior analytical roles or Master's level study (e.g., MSc Data Analytics, MSc Artificial Intelligence, MSc Business Intelligence).

2. Programme Rationale

Industry Demand and Labour Market Analysis The shift towards data-driven operations requires professionals who not only understand data architecture but can translate complex datasets into

executive-level strategy. There is a surging demand for Business Intelligence (BI) analysts and data professionals capable of ethical data governance and AI-driven decision intelligence.

Academic Progression This programme serves as the capstone progression for students who have completed the SBIS Level 5 qualification. Building on the technical foundations of Level 4 and the strategic implementations of Level 5, this Level 6 top-up elevates learners to analytical leadership. It bridges the gap between mid-level technical execution and graduate-level consultancy, ensuring learners develop the autonomy and critical thinking required of a UK BSc (Hons) graduate.

3. Programme Aims and Objectives

The core aim is to produce Analytical Leaders and Data Consultants who can leverage advanced intelligence systems to drive enterprise strategy.

Specific Programme Objectives:

1. **Strategic Decision-Making:** To formulate data-driven business strategies using advanced analytics and enterprise data platforms.
2. **Advanced Analytics & AI:** To design, deploy, and critically evaluate machine learning models and predictive BI systems.
3. **Data Governance:** To synthesise frameworks for data ethics, privacy, and international corporate data strategy.
4. **Leadership & Consultancy:** To develop independent research and consultancy skills through an applied data capstone project.

4. Programme Structure

To meet the 120-credit requirement for a Level 6 Top-Up, the programme consists of four 30-credit modules:

No.	Unit Title	Credits	Assessment
14	Advanced Business Intelligence & Decision Support Systems	30	BI Dashboard & Executive Briefing
15	Machine Learning & Predictive Analytics in Business	30	Predictive Analytics Model & Report
16	Big Data Technologies & Enterprise Data Strategy	30	Cloud Analytics Consultancy Report
17	Applied Analytics Capstone Project (Dissertation)	30	Independent Research Dissertation

6. Assessment & Employability Matrix (Level 6 – Strategic Business Intelligence & Data Analytics)

Unit No.	Unit Title	Primary Assessment Method	Key Employability Skills Developed
14	Advanced Business Intelligence & Decision Support Systems	BI Dashboard & Executive Briefing	<ul style="list-style-type: none"> • Data visualisation and storytelling • Business decision-making support • Stakeholder communication

Unit No.	Unit Title	Primary Assessment Method	Key Employability Skills Developed
			(technical → non-technical) <ul style="list-style-type: none"> • Use of BI tools (Power BI/Tableau) • Analytical thinking and insight generation
15	Machine Learning & Predictive Analytics in Business	Predictive Analytics Model & Report	<ul style="list-style-type: none"> • Machine learning model development • Predictive analytics and forecasting • Programming (Python/R) and data modelling • Critical evaluation of model performance • Problem-solving using data-driven approaches
16	Big Data Technologies & Enterprise Data Strategy	Cloud Analytics Consultancy Report	<ul style="list-style-type: none"> • Big data architecture and strategy design • Cloud platforms (AWS/Azure/GCP) application • Consultancy and client-facing skills • Strategic thinking and digital transformation planning • Professional report writing and recommendations
17	Applied Analytics Capstone Project (Dissertation)	Independent Research Dissertation	<ul style="list-style-type: none"> • Independent research and project management • Critical thinking and academic writing • Data analysis and interpretation • Innovation and problem-solving • Professional autonomy and self-direction

◇ Capstone / Integrative Assessment Design

(Strategic Business Intelligence & Data Analytics Programme)

◆ Assessment Overview

The Capstone requires learners to **design, develop, and justify a fully integrated digital business solution**, combining:

- **Web technologies (Unit 6)**
- **Project management (Unit 7)**
- **Digital strategy & governance (Unit 8, 10)**

- **Data analytics & visualisation (Unit 9, 14)**
- **AI & machine learning (Units 12, 13, 15)**
- **Big data & cloud strategy (Unit 16)**
- **Entrepreneurship & innovation (Unit 11)**

The output aligns directly with:

- **Unit 17 (Dissertation)**
- Supporting artefacts from Units 14–16

◇ Assessment Structure

Component	Description	Weighting
Strategic Project Development (Assignment)	<p>Development of an end-to-end business solution, integrating:</p> <ul style="list-style-type: none"> • Full-stack or digital platform prototype (Web/App) • AI/ML predictive model or automation component • Interactive BI dashboard for decision-making • Cloud/data architecture and enterprise data strategy • Digital business model (e-commerce/entrepreneurial concept) • Governance, ethics, and GDPR compliance considerations • Agile project plan and implementation roadmap <p>Delivered as a consultancy-style report + technical artefacts demonstrating feasibility, innovation, and impact</p>	70%
Final Presentation & Pitch	<p>Professional executive-level presentation and demonstration, including:</p> <ul style="list-style-type: none"> • Business pitch (value proposition, market relevance) • Live demo of system/dashboard/model • Strategic justification (data-driven insights) • Reflection on project management approach (Agile) • Q&A with panel (simulating stakeholders/investors) <p>Focus on communication, persuasion, and professional practice</p>	30%
Total	Combined integrative assessment	100%

◇ Expected Outputs

Learners will typically submit:

- Consultancy report (8,000–10,000 words or equivalent)
- Functional prototype/system (web or analytics platform)
- BI dashboard (Power BI / Tableau)
- Predictive model (Python/R)

- Agile project documentation
- Presentation slides + live demo

◇ Assessment Strategy (Assignment + Presentation Model)

A. Overall Assessment Weighting

Component	Description	Weighting
Coursework Assignments	Practical and theoretical outputs, including reports, system designs, dashboards, business cases, and technical artefacts, mapped to LOs & ACs	70%
Presentations & Demonstrations	Business pitches, dashboard demos, project presentations, viva, and strategic briefings	30%
Total	Combined assessment	100%

B. Overall Grade Boundaries

Grade	Percentage Range	Descriptor
Distinction	70–100%	Outstanding performance with critical insight, innovation, and professional standards
Merit	60–69%	Strong analytical, technical, and strategic performance
Pass	40–59%	Meets learning outcomes with satisfactory understanding
Fail	Below 40%	Does not meet the required learning outcomes

C. Coursework Assignment Criteria (70%)

Grade	Technical / Analytical Skills	Business Application	Documentation & Reporting	Overall Standard
Distinction (70–100%)	Advanced technical and analytical solutions (e.g., dashboards, AI models, cloud proposals)	Strong integration of IS with business strategy and decision-making	Professional, structured, and critically evaluative	Industry-ready output
Merit (60–69%)	Accurate and well-developed technical/analytical work	Clear application to business problems	Well-organised with good justification	Above average standard
Pass (40–59%)	Functional but basic outputs (reports, dashboards, systems)	Limited but valid business linkage	Adequate explanation	Meets LOs & ACs
Fail (<40%)	Incomplete or incorrect outputs	Weak or unclear business relevance	Poor or missing documentation	Below required standard

D. Presentation & Demonstration Criteria (30%)

Grade	Communication & Delivery	Strategic Understanding	Q&A / Defence	Demonstration Quality
Distinction (70–100%)	Highly professional, persuasive, and engaging	Deep understanding of business + technology integration	Excellent critical responses	High-quality, polished demonstrations (e.g., dashboards, systems, strategies)
Merit (60–69%)	Clear and structured delivery	Good understanding of concepts	Confident responses	Functional and well-presented outputs
Pass (40–59%)	Basic communication	Limited depth in explanation	Some difficulty answering questions	Basic but working demonstration
Fail (<40%)	Unclear or disorganised	Poor understanding	Unable to respond effectively	Weak or no demonstration

E. Capstone / Integrative Assessment (Level 5 – SBIS Focus)

Based on Level 5 units such as:

- Entrepreneurship (Unit 11 – Pitch Deck)
- AI Applications (Unit 13 – AI Strategy/Implementation)

Component	Description	Weighting
Strategic Project Development (Assignment)	Business solution, AI/data integration, digital strategy, or system implementation	70%
Final Presentation & Pitch	Business pitch, dashboard/system demo, strategic justification	30%
Total	Combined integrative assessment	100%

F. Capstone Grading Criteria

Criteria Area	Weight	Pass (40–59%)	Merit (60–69%)	Distinction (70–100%)
Innovation & Business Idea	15%	Basic idea with limited originality	Some originality in addressing business needs	Highly innovative, impactful business-driven solution
Technical / IS Implementation	20%	Functional system/dashboard/report	Well-developed and appropriate technologies	Advanced, integrated IS solution (AI, BI, Cloud, etc.)
Data / AI / System Integration	15%	Basic use of tools (BI/AI/Cloud)	Effective integration supporting decisions	Sophisticated integration enabling strategic advantage

Criteria Area	Weight	Pass (40–59%)	Merit (60–69%)	Distinction (70–100%)
Business Strategy & Viability	15%	Basic business understanding	Clear business model and market awareness	Strong, scalable strategy with competitive advantage
Documentation & Report	10%	Adequate structure and explanation	Well-structured with analysis	Professional, critical, and industry-standard reporting
Presentation & Pitch Delivery	15%	Basic explanation of the solution	Clear and confident delivery	Persuasive, professional, investor-level pitch
Q&A / Defence	10%	Limited responses	Good understanding demonstrated	Excellent defence with critical insight
Total	100%			

G. Assessment Strategy Summary

Feature	Approach
Assessment Type	Blended (Assignment + Presentation)
Practical Focus	Real-world business + IT outputs (dashboards, strategies, systems)
Industry Alignment	Reflects IS roles (Business Analyst, Data Analyst, IT Project Manager)
Communication Skills	Assessed via pitches, reports, and stakeholder presentations
Alignment	Fully mapped to unit assessments (e.g., dashboards, reports, pitch decks)
Quality Assurance	IV, Sampling, Standardisation, and EQA maintained