



Level 3 Certificate in Information Systems (102)
75 Credits






Unit: Business Information System	Total Qualification Time: 200
Exam Paper No.: 2	Number of Credits: 20
Prerequisites: None	Corequisites: GCSE qualification.
<p>Aim: Business Information System unit aim to give learners an understanding of the technical background to the use and the implementation of technology and the role of information systems in business organisations. The unit also describe knowledge management, enterprise resource planning systems, knowledge based systems and IT strategy framework. Business Information System (BIS) prepare learners to be effective planners, users and managers of information technologies and systems in the current environment of the technology-enabled business firm. BIS focuses on ecommerce implementation for both strategic planning of IT and performance evaluation, and the organisational knowledge required to manage information systems and applications. The aim of the unit is to enable learners to meet the increasing demand for industry professionals who possess the business acumen to understand a company's business systems and information needs, and who also have a technological awareness to ensure that the right information systems support is available. Businesses need these professionals to help them harness the power of modern technology in business operations, improve their capacity for management decision making and capitalise on the use of network based information sharing. The primary emphasis of the unit is on the ways in which information and communication technologies, databases and enterprise information systems can be strategically used for business process improvement and business innovation. It encourages learners to develop the ability to contribute to the decision-making, design and implementation of business process change, and information system projects in organisations.</p>	
Required Materials: Recommended Learning Resources.	Supplementary Materials: Lecture notes and tutor extra reading recommendations.
Special Requirements: None	
<p>Intended Learning Outcomes:</p> <p>1 The concepts of managing an Information System from an information system perspective.</p> <p>2 The modern day organisation in today's digital world and how enterprises partner.</p>	<p>Assessment Criteria:</p> <p>1.1 Be able to analyse business organisational characteristics</p> <p>1.2 Be able to analyse Business Information System characteristics and functions</p> <p>1.3 Describe Information Systems concepts and definitions</p> <p>1.4 Explain the types of Information Systems</p> <p>1.5 Identify management of information resources</p> <p>1.6 Discuss the characteristics common to all organisations</p> <p>1.7 Describe the advantages, similarities and principal functions of business information systems</p> <p>1.8 Outline the functional components of a computer system.</p> <p>2.1 Compare and contrast the new economy vs old economy</p> <p>2.2 Describe business pressures and organisational responses</p> <p>2.3 Define competitive advantage and strategic information</p> <p>2.4 Analyse the importance of Information Technology (IT)</p> <p>2.5 Define Corporate and IT Governance</p>

3 Ethical issues, threats and how Information Systems should be protected.	2.6 Describe IT control frameworks and standards 2.7 Identify IT strategies and business processes 3.1 Describe different the categories of ethical issues 3.2 Identify information security threats 3.3 Describe risk strategies 3.4 Research and investigate ethical issues in computing 3.5 Investigate civil liberties related to computing and telecommunication technology
4 Strategies, practices and disciplines related to managing data.	4.1 Identify data management life cycle 4.2 Analyse database management system 4.3 Describe relational database management 4.4 Discuss key data warehousing concepts 4.5 Analyse Decision Support Systems 4.6 Be able to explain and calculate the Modulus 11 Check digit formula 4.7 Describe the batch, online and real time data processing systems
5 Understand the basics; web, internet, implementation of networking technology; ebusiness and ecommerce and reviewing the differences between ebusiness and ecommerce.	5.1 Identify the different types of networks 5.2 Demonstrate how internet works 5.3 Describe the World Wide Web concepts 5.4 Analyse network applications 5.5 Discuss the types of Ecommerce 5.6 Explain and demonstrate B2C Ecommerce 5.7 Explain and demonstrate B2B Ecommerce 5.8 Analyse electronic payment advantages and disadvantages 5.9 Identify legal issues specific to ecommerce
6 The wireless technology architecture; the advantages and disadvantages compared to a wired network.	6.1 Discuss wireless transmission media 6.2 Identify wireless standards 6.3 Describe mobile computing and mobile commerce 6.4 Analyse the wireless security threats 6.5 Describe client/server networking
7 Organisational information processing; implementation of information system in relation to business structure.	7.1 Define transaction processes 7.2 Describe reports produced by the different functional departments 7.3 Outline Enterprise Resource Planning 7.4 Discuss the importance of customer management 7.5 Analyse the supply chain management 7.6 Describe the structured electronic data transmission and payment system 7.7 Analyse the activities of the IT department
8 Management role in making decisions	8.1 Analyse management decision making

and the Decision Support System (DSS) tools used.	<p>process</p> <p>8.2 Identify DSS and the computing environment</p> <p>8.3 Discuss intelligence systems</p> <p>8.4 Describe approaches used in computer technology to improve managerial productivity</p>
9 The strategies for acquiring IT applications including the processes of vendor and software selection.	<p>9.1 Discuss IT strategic plans</p> <p>9.2 Demonstrate the system development life cycle</p> <p>9.3 Identify application service providers</p> <p>9.4 Outline how to determine if an organisation's Information System is financially feasible</p>
<p>Methods of Evaluation: A 2-hour written examination paper with Section A and Section B. Section A has 40 multiple choice questions. Section B has three essay questions, each carrying 20 marks. Candidates are required to answer all questions. Candidates also undertake project/coursework in Business Information System with a weighting of 100%.</p>	

**Recommended Learning Resources:
Business Information System**

Text Books	<ul style="list-style-type: none"> • Essentials of Business Information Systems (Hardcover) by Kenneth C. Laudon and Jane P. Laudon. ISBN-10: 0132241625 • Business Driven Information Systems (Hardcover) by Paige Baltzan and Amy Phillips ISBN-10: 0073376736 • Business and Information Systems (2nd Edition) (Hardcover) by Robert C. Nickerson. ISBN-10: 0130894966 • Fundamentals of Information Systems, 4th Edition (Paperback) by Ralph Stair and George Reynolds. ISBN-10: 1423901134
Study Manuals 	BCE produced study packs
CD ROM 	Power-point slides
Software 	None