

## LONDON CAPITAL COMPUTER COLLEGE

## Diploma in Computerised Accounting (333) – Accounting Information Systems

| Prerequisites: Knowledge of accounting and basic computing   | Corequisites: A pass or higher in Diploma in BA & Computer Systems or equivalence.            |  |  |  |
|--|---|--|--|--|
| Aim: The Accounting Information Systems combines accounting and information technology to meet the technology demands of all sectors of business. The course provides candidates with sufficient |   |  |  |  |
|  | knowledge and practices to deal with problems and issues related to computer-based accounting |  |  |  |
| information systems. Accounting Information Syst   |   |  |  |  |
| system. The REA mode is used as a framework for  |   |  |  |  |
| organisation's critical resources, events and agents.  |   |  |  |  |
|  | Candidates also analyse the system development life   |  |  |  |
| cycle.   | validations also unary so the system development into   |  |  |  |
| Required Materials: Recommended Learning   | Supplementary Materials: Lecture notes and  |  |  |  |
| Resources.   | tutor extra reading recommendations.  |  |  |  |
| <b>Special Requirements:</b> The course requires a comb  |   |  |  |  |
| discussions.   | ,   |  |  |  |
| Intended Learning Outcomes:  | Assessment Criteria:  |  |  |  |
| 1 Define Accounting Information System   | 1.1 Describe the primary information flows  |  |  |  |
|  | within the business environment   |  |  |  |
|  | 1.2 Contrast accounting information systems   |  |  |  |
|  | and management information systems  |  |  |  |
|  | 1.3 Contrast financial transactions against non-financial transactions                        |  |  |  |
|  | 1.4 Analyse the functional areas of a business  |  |  |  |
|  | 1.5 Discuss the roles of accountants in an  |  |  |  |
|  | information system  |  |  |  |
|  |   |  |  |  |
| 2 Understand the transaction processing  | 2.1 Analyse the transactions processed by   |  |  |  |
| concepts and techniques  | the different transaction cycle   |  |  |  |
|  | 2.2 Describe the basic accounting records   |  |  |  |
|  | used in transaction processing  |  |  |  |
|  | 2.3 Analyse documentation techniques  |  |  |  |
|  | 2.4 Contrast batch and real-time processing   |  |  |  |
|  | and the impact of these technologies on   |  |  |  |
|  | transaction processing  |  |  |  |
| 3 Understand broad issues pertaining to  |   |  |  |  |
| ethics, fraud, and internal control  | 3.1 Discuss ethical issues related to the use   |  |  |  |
| ethics, fraud, and internal control  | of information technology   |  |  |  |
|  | 3.2 Distinguish between management fraud  |  |  |  |
|  | and employee fraud  |  |  |  |
|  | 3.3 Explore common types of fraud schemes   |  |  |  |
|  | 3.4 Analyse key features of an internal   |  |  |  |
|  | control framework   |  |  |  |
|  | 3.5 Describe objects and application of   |  |  |  |
|  | physical controls   |  |  |  |
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| 4 Analyse tasks performed in the revenue   | 4.1 Describe functional departments in the  |  |  |  |
| cycle  | revenue cycle and the flow of revenue   |  |  |  |
|  | transactions through the organisation   |  |  |  |
|  | 4.2 Define the documents, journals, and   |  |  |  |
|  | accounts needed for audit trails, the   |  |  |  |
|  | maintenance of records, decision  |  |  |  |

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|   | 4.3          | making, and financial reporting Explore risks associated with the revenue cycle and the controls that reduce these   |
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|   | 4.4          | risks Investigate the operational and control implications of technology used to automate and reengineer the revenue cycle                                   |
| 5 Understand the tasks performed during purchases and cash disbursement processes | 5.1          | Describe departments involved in purchases and cash disbursement activities and the flow of these transactions through the organization                      |
|   | 5.2          | Analyse documents, journals, and accounts that provide audit trails, promote the maintenance of records, and support decision making and financial reporting |
|   | 5.3          | Explore risks associated with purchase and cash disbursement activities and the controls that reduce these risks   |
|   | 5.4          | Investigate operational features and the control implications of technology used in purchases and cash disbursement systems                                  |
| 6 Understand the fundamental tasks of payroll and fixed asset processes           | 6.1          | Explore the functional department of payroll and fixed asset activities and the flow of transactions through the organization                                |
|   | 6.2          | Analyse documents, journals, and accounts needed for audit trails, record maintenance, decision making, and financial reporting                              |
|   | 6.3          | Evaluate exposures associated with payroll and fixed asset activities and the controls that reduce these risks   |
|   | 6.4          | Investigate operational features and the control implications of technology used in payroll and fixed asset systems  |
| 7 Understand the conversion cycle   | 7.1          | Describe the elements and procedures of production process   |
|   | 7.2          | Analyse data flows and procedures in a traditional cost accounting system  |
|   | 7.3          | Describe accounts control procedures   |
|   | 7.4          | Describe operating features,<br>philosophies, and technologies of a<br>healthy and competitive company   |
|   | 7.5          | Evaluate just-in-time systems and the implications of maintaining excessive  |
|   | 7.6          | inventories  Describe the importance of quality in an  |
|   | 7.0          | organisation   |
| 8 Understand financial reporting and management reporting systems                 | 8.1          | Describe the features, advantages, and disadvantages of various coding schemes   |
| management reporting systems  | 8.2          | Analyse operational features of the<br>General Ledger System (GLS), Financial  |
|   | 8.3          | Reporting Process (FRS), and Management Reporting Systems (MRS). Explore the principle operational   |
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|  | 8.4<br>8.5   | controls governing the GLS and FRS Describe factors that influence the design of the MRS Discuss elements and responsibilities of   |
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|  | 0.0          | an accounting system  |
| 9 Understand database management systems   | 9.1          | Explore problems inherent in the flat file approach to data management that gave rise to the database concept   |
|  | 9.2          | Describe relationships among the defining elements of the database environment  |
|  | 9.3          | Describe anomalies caused by unnormalised databases and the need for data normalisation   |
|  | 9.4          | Demonstrate stages in database design: entity identification, data modeling,  |
|  | 9.5          | constructing the physical database, and preparing user views Describe features of distributed databases and issues to consider in deciding on a particular database configuration |
| 10 Understand the Resources, Events and Agents (REA) approach to business process              | 10.1         | Analyse limitations of traditional database systems   |
| modeling   | 10.2         | Describe benefits of an REA approach to information systems Describe implications of REA for the  |
|  | 10.3         | accounting Demonstrate steps in preparing an REA  |
|  | 10.5         | model of a business process Discuss the importance of identifying the attributes of entity relations in relational database design  |
|  | 10.6         | Explore the differences between REA model representations and ER diagram representations  |
| 11 Understand the functionality and key elements of Enterprise Resource Planning (ERP) systems | 11.1<br>11.2 | Define ERP configurations Discuss data warehousing as a strategic tool and issues related to the design, maintenance, and operation of a data warehouse                           |
|  | 11.3         | Identify risks associated with ERP implementation   |
|  | 11.4         | Analyse key considerations related to ERP implementation  |
|  | 11.5         | Describe internal control and auditing implications of ERPs   |
|  | 11.6         | Discuss the leading ERP products and their distinguishing features  |
| 12 Understand the development process of eCommerce Systems                                     | 12.1         | Describe topologies that are employed to achieve connectivity across the Internet   |
| Commerce Systems   | 12.2         | Analyse protocols and the specific purposes served by several Internet protocols  |
|  | 12.3         | Discuss business benefits associated with Internet eCommerce  |
|  | 12.4         | Explore different internet business models  |

|  | 12.5  | Describe risks associated with intranet  |
|--|-------|--|
|  | 12.6  | and Internet eCommerce Explore issues of security, assurance,                    |
|  | 12.7  | and trust pertaining to eCommerce Discuss eCommerce implications for the         |
|  |       | accounting profession  |
| 13 Understand the Systems Development  | 13.1  | Identify the key stages in the SDLC  |
| Life Cycle (SDLC)  | 13.2  | Describe how a firm's business strategy shapes its information system            |
|  | 13.3  | Analyse the relationship between strategic systems planning and legacy systems   |
|  | 13.4  | Analyse the systems analysis stage   |
|  | 13.5  | Demonstrate the TELOS model for assessing project feasibility                    |
|  | 13.6  | Discuss cost-benefit analysis issues related to information systems projects     |
|  | 13.7  | Analyse the role of accountants in the SDLC                                      |
| 14 Undowston d harmeter and the delivery   | 14.1  | Analyse the sequence of events that  |
| 14 Understand how to construct, deliver, and maintain systems projects   |       | constitutes the in-house development   |
| , and an experience of the control o | 14.2  | phase of SDLC Analyse the tools used to improve the                              |
|  |       | success of systems construction and  |
|  |       | delivery activities: CASE tools; PERT and Gantt charts                           |
|  | 14.3  | Distinguish between structured and   |
|  | 14.4  | object-oriented design approaches Demonstrate multi-level DFDs in the            |
|  | 1 1.1 | design of business processes   |
|  | 14.5  | Analyse the different types of systems documentation and the purposes they serve |
|  | 14.6  | Describe the role of accountants in the construction and delivery of systems     |
|  | 14.7  | Describe the advantages and  |
|  |       | disadvantages of commercial software   |
| 15 Understand corporate responsibility and   | 15.1  | Describe key features of corporate   |
| IT governance  |       | responsibility for financial reports and management assessment of internal       |
|  |       | controls   |
|  | 15.2  | Describe management and auditor responsibilities regarding financial             |
|  |       | reports and assessment of internal   |
|  | 15.3  | controls Discuss risks of incompatible IT  |
|  |       | functions.   |
|  | 15.4  | Analyse controls and security of an organization's computer facilities           |
|  | 15.5  | Describe key elements of a disaster  |
| 16 Understand security systems and access  | 16.1  | recovery plan Demonstrate threats to the operating                               |
| control for businesses   |       | system and analyse internal controls to minimise them                            |
|  | 16.2  | Demonstrate threats to database integrity  |
|  |       | and analyse internal controls to minimise them                                   |
|  | 16.3  | Identify risks associated with   |
|  |       | eCommerce and analyse internal controls  |

| to reduce them  16.4 Identify exposures associated with electronic data interchange (EDI) and analyse internal controls to reduce them |
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**Recommended Learning Resources: Accounting Information Systems** 

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|---------------|---|
| Text Books    | <ul> <li>Core Concepts of Accounting Information Systems by Nancy A. Bagranoff, Mark G. Simkin and Carolyn Strand Norman. ISBN-10: 0470045590</li> <li>Accounting Information Systems, International Edition by James Hall. ISBN-10: 0324560931</li> <li>Accounting Information Systems: International Version by Marshall B. Romney and</li> </ul> |
|               | Paul J. Steinbart. ISBN-10: 0135009375  |
| Study Manuals | BCE produced study packs  |
| CD ROM        | Power-point slides  |
| Software      | QuickBooks  |