



# **LEVEL 4 DIPLOMA IN COMPUTING**

Online Course | Tutor is available to students | Qualification listed on OfQual website



| Credits | Awarding body | Delivery mode |
|---------|---------------|---------------|
| 120     | ATHE,UK       | Online        |

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# **Entry Requirements**

This qualification is designed for learners who are typically aged 18 and above.

For learners who have recently been in education or training the entry profile is likely to include one of following:

- a GCE Advanced level profile with achievement in 2 or more subjects supported by 5 or more GCSEs at grades C and above other related level 3 subjects
- an Access to Higher Education Certificate delivered by an approved further education institute and validated by an Access Validating Agency
- other equivalent international qualifications
- or
- Relevant work experience at managerial level

Learners must also have an appropriate standard of English to enable them to access relevant resources and complete the unit assignments.

#### Introduction to Level 4 Diploma in Computing

The new qualification in Computing at Level 4 has been developed to conform to the requirements of the RQF, to meet the requirements of the sector.

This qualification provides the core knowledge, understanding and skills to support learners planning to further their studies in computing. It is equivalent to the first year of a degree programme in Computing. Learner may also progress from this qualification to employment in the sector.

# Progression

On successful completion of a Level 4 qualification in Computing there are a number of progression opportunities.

Learners may progress to:

- a level 5 qualification such as the Level 5 Diploma in Computing
- employment in a computing and/or technology role at an appropriate level
- the second year of a degree programme

# Level 4 Diploma in computing

The Level 4 Diploma in Computing is a 120 credit qualification. Learners must achieve 120 credits by completing all mandatory uni

| Mandatory Unit                                   | Level | Credit | GLH |
|--|-------|--------|-----|
| IT and Society                                   | 4     | 12     | 48  |
| Computer Systems and Software                    | 4     | 12     | 48  |
| Computer Programming Relational Database Systems | 4     | 12     | 48  |
| Software Engineering                             | 4     | 12     | 48  |
| Systems Analysis and Design                      | 4     | 12     | 48  |
| E-commerce Applications                          | 4     | 12     | 48  |
| Human Computer Interaction                       | 4     | 12     | 48  |
| Information Systems Theory and Practice          | 4     | 12     | 48  |
| Management Information Systems                   | 4     | 12     | 48  |

# **Unit Specifications**

### **Unit Format**

Each unit is presented in a standard format. This format provides guidance on the requirements of the unit for learners, tutors, assessors and external verifiers.

Each unit has the following sections:

# **Unit Title**

The unit title reflects the content of the unit. The title of each unit completed will appear on a learner's statement of results.

# **Unit Aims**

The unit aims section summarises the content of the unit.

# **Unit Code**

Each unit is assigned a RQF unit code that appears with the unit title on the Register of Regulated Qualifications.

#### **RQF** Level

All units and qualifications in the RQF have a level assigned to them which represents the level of achievement. The level of each unit is informed by the RQF level descriptors.

### **Credit Value**

The credit value is the number of credits that may be awarded to a learner for the successful achievement of the learning outcomes of a unit.

#### Learning Outcomes

The learning outcomes set out what a learner is expected to know, understand or be able to do as the result of the learning process.

#### **Assessment Criteria**

The assessment criteria describe the requirements a learner is expected to meet in order to demonstrate that the learning outcome has been achieved. Command verbs reflect the level of the qualification e.g. at level 4 you would see words such as analyses and evaluate

# **Unit Indicative Content**

The unit indicative content section provides details of the range of subject material for the programme of learning for the unit.

| IT and Society   |   |   |
|--|---|---|
| Unit Aims  | Learners will un  | derstand ethical, legal and regulatory issues                       |
|  | relating to IT. Th  | ney will also understand the impact of IT on                        |
|  | society.  |   |
| Unit Level   | 4   |   |
| Guided Learning Hours  | 48  |   |
| Credit Value   | 12  |   |
| Unit Grading Structure   | Pass  |   |
| Assessment Guidance  |   | unit, learners must achieve the learning                            |
|  | outcomes and meet the standards specified by the assessment       |   |
|  | criteria for the unit. Additional assessment guidance is provided |   |
|  |   | mple assignment brief.  |
| Learning Outcomes – The  | e learner will:   | Assessment Criteria – The learner can:                              |
| 1. Understand how IT has chan  | ged the   | 1.1 Analyse significant developments in IT in the                   |
| way people live and work   |   | last 50 years   |
|  |   | 1.2 Evaluate how IT has changed society over                        |
|  |   | the last 50 years   |
|  |   | 1.3 Explain how IT has changed the way people                       |
|  |   | work in the last 50 years   |
| Indicative Content   |   |   |
| <ul> <li>Computers and society: Explaining digital citizenship, Community and the information age, Gender, Age, Culture.</li> <li>Impact of IT in society: Understanding the environment, Explaining the impact of the information age to social groups.</li> <li>IT induced changes for individuals: Everyday life, At home, At school, At the workplace</li> </ul>                       |   |   |
| 2. Understand IT issues in society 2.1 Explain the significance of digital citizenship to society  |   |   |
|  |   | 2.2 Explain the impact on individuals of living in                  |
|  |   | the information age   |
|  |   | 2.3 Evaluate current issues in society relating to<br>personal data |
| Indicative Content   |   |   |
| <ul> <li>Social issues: Government role in information handling, Cultural diversity as a success factor for IT, regional and national perceptions of IT.</li> <li>Professional issues: Code of ethics, IT professional culture.</li> <li>Shaping the future developments: Internet penetration in everyday life, Smart devices, Social networks, Managing data and information.</li> </ul> |   |   |
| -  |   | 3.1 Evaluate current legal, ethical and regulatory                  |
| regulatory issues in IT  |   | issues in IT  |
|  |   | 3.2 Assess the importance of ethical guidelines                     |
|  |   | in IT   |
|  |   | 3.3 Evaluate the impact of a current legal, ethical                 |
|  |   | or regulatory issue in IT on a chosen                               |
| Indicative Content   |   | organisation  |
|  |   |   |

- Legal issues: IT related liabilities, Legislation relating to IT, Impact of legislation on ٠ systems development.
- •
- Ethical issues: Dealing with personal data, Ethical systems design and development. Risks: Computer threats, Digital crime, Privacy, Security, Impact of e-everything (e.g. e-marketing, e-banking). •

| Computer Systems and Software  |  |  |  |
|--|--|--|--|
| Unit Aims  | This unit will develop learners' understanding of the integration<br>of hardware and software components. Learners will explore<br>how hardware serves specific computer processing functions<br>and investigate the use of various software applications.   |  |  |
| Unit Level   | 4  |  |  |
| Guided Learning Hours  | 48   |  |  |
| Credit Value   | 12   |  |  |
| Unit Grading Structure   | Pass   |  |  |
| Assessment Guidance  | To achieve this unit, learners must achieve the learning<br>outcomes and meet the standards specified by the assessment<br>criteria for this unit. Additional guidance is provided on the ATHE<br>sample assignment brief. Learners will design a computer<br>system in line with the client brief and they will need to<br>demonstrate advanced database skills during the<br>implementation stage. |  |  |
| Learning Outcomes – The  | e learner will:  | Assessment Criteria – The learner can:   |  |
| 1. Understand components of co<br>systems  | mputer   | <ul> <li>1.1 Describe components of different computer systems</li> <li>1.2 Analyse networking infrastructures</li> <li>1.3 Assess the function of components within a chosen computer system</li> <li>1.4 Evaluate peripheral devices to meet different purposes</li> </ul>   |  |
| Indicative Content   | Indicative Content   |  |  |
| <ul> <li>Computer components: defining a computer system, system component types</li> <li>Networking infrastructures: system connectivity, network types, hardware infrastructure, networking software</li> <li>Component functionality: processing, memory, system interfaces (input/output)</li> <li>Peripheral devices: limitations of computer systems, designing</li> </ul> |  |  |  |
| · · · ·  | expandable systems, device types.  |  |  |
| 2. Understand computer so  | ttware   | <ul> <li>2.1 Evaluate different operating systems explaining their role in managing resources</li> <li>Critically assess the use of different</li> <li>2.2 software applications to meet specific purposes</li> <li>2.3 Assess the use of web applications to enhance user experience Assess the use of mobile applications</li> <li>2.4 to enhance user experience</li> </ul> |  |
| Indicative Content   |  |  |  |

- Operating systems: the role of an operating system, OS types
- Software applications: the role of software applications, functionality and services supported by software, application types
- Web applications: the impact of the World Wide Web, architecture of web applications, web application types, web services
- Mobile applications: the role of mobile applications, interface issues, mobility issues, connectivity issues, security issues

| Computer Programming   |  |  |
|--|--|--|
| Unit Aims  | Learners will use different tools and techniques to design,<br>implement and test programs, following the system life cycle.<br>They will use an appropriate programming language and learn<br>about the principles of good programming to enable them to<br>create computer programs. |  |
| Unit Level   | 4  |  |
| Guided Learning Hours  | 48   |  |
| Credit Value   | 12   |  |
| Unit Grading Structure   | Pass   |  |
| Assessment Guidance  | outcomes and n<br>criteria for the u<br>on the ATHE sa   | unit, learners must achieve the learning<br>neet the standards specified by the assessment<br>nit. Additional assessment guidance is provided<br>imple assignment brief.   |
| Learning Outcomes – The  | e learner will:  | Assessment Criteria – The learner can:   |
| 1. Understand principles of computer programming   |  | <ul> <li>1.1 Critically evaluate application programming interfaces (API)</li> <li>1.2 Critically appraise the stages of the software development lifecycle</li> <li>1.3 Explain the language constructs to be used within a programme</li> </ul>                      |
| Indicative Content   |  |  |
| <ul> <li>Application Programming Interface (API) evaluation: the need for API,<br/>API technologies, API evaluation criteria (security, functionality, usability)</li> <li>Software Development Life Cycle: SDLC importance, SDLC and programming</li> <li>Programming paradigms: Procedural programming, Functional programming, Object-<br/>oriented programming</li> <li>Programming language constructs: Variables, Constants, Operators, Loops,<br/>Conditional Statements</li> </ul> |  |  |
| 2. Be able to develop a computer program to a client brief   |  | <ul><li>2.1 Design a computer program to meet a client<br/>brief using programming principles</li><li>2.2 Develop a computer program to an agreed<br/>client brief</li></ul>   |
| Indicative Content   |  |  |
| <ul> <li>Designing a computer programme: Using data models, The role of conceptual modelling, Algorithms, Pseudocode</li> <li>Developing a computer programme: Structuring a simple program</li> </ul>   |  |  |
| 3. Be able to evaluate a compute program   | ∍r   | <ul> <li>3.1 Test a computer program that has been developed</li> <li>3.2 Analyse test results against expected results to identify discrepancies</li> <li>3.3 Make recommendations for improvements to a computer program before final release to a client</li> </ul> |
| Indicative Content   |  |  |

| • | Testing a program: Testing programming practices, Testing data structures, Testing |
|---|--|
|   | algorithm  |
| • | Analysing test results: Test reports, Verification, Validation                     |
|   |  |

- Evaluating feedback: User evaluation, The role of software documentation, Dealing with integration, installation, deployment, updates Improving a program: Change requests, Scalability, Maintenance, Support ٠
- •

| Relational Database Systems  |  |   |
|--|--|---|
| Unit Aims<br>Unit Level  | This unit will develop learners' understanding of database<br>systems and data analysis and modeling. They will understand<br>how normal is action and functional dependency theory is used to<br>design a relational database and how the client-server model is<br>used. |   |
| Guided Learning Hours  | 48   |   |
| Credit Value   | 12   |   |
| Unit Grading Structure   | Pass   |   |
| Assessment Guidance  | To achieve this un   | it, learners must achieve the learning  |
|  | criteria for the unit<br>on the ATHE sam   | et the standards specified by the assessment<br>Additional assessment guidance is provided<br>ple assignment brief  |
| Learning Outcomes – The  | learner will: A  | ssessment Criteria – The learner can:   |
| 1. Understand database manage<br>systems   | 1.<br>1.<br>1.   | <ol> <li>1 Explain the database Management System<br/>(DBMS)</li> <li>2 Explain the different levels of database<br/>architecture</li> <li>3 Describe big data and how it applies to<br/>database management systems</li> <li>4 Explain transaction processing within<br/>database management systems</li> <li>5 Evaluate the importance of data integrity and<br/>quality control within a database<br/>management system</li> </ol> |
| <ul> <li>DBMS: DBMS overview, DBMS types,</li> <li>Database architectures: data models, data schemas, DBMS levels</li> <li>Big data: big data explained, big data management, applications of big data</li> <li>Transaction processing: concepts, transaction processing systems, OLTP, OLAP</li> <li>Data integrity: data quality management, quality control in DBMS, data integrity explained, data security</li> <li>2. Understand database design</li> <li>2.1 Explain relationships within a database</li> <li>2.2 Explain the integrity constraints within</li> </ul> |  |   |
| Indicative Content   |  | <ul> <li>relational models</li> <li>.3 Explain normal is action and functional dependency within a database</li> <li>.4 Explain database administration including integrity and security control</li> </ul>   |
| <ul> <li>Database relationships: relationships, joins, keys</li> <li>Integrity constraints: referential integrity, domain integrity, entity integrity, foreign key integrity</li> <li>Functional dependencies: schema normal is action, normal forms</li> <li>Database administration: the role of the DBA_DBA_skills and responsibilities</li> </ul>  |  |   |

• Database administration: the role of the DBA, DBA skills and responsibilities

| 3. Be able to design a database system | <ul> <li>3.1 Design a relational database to meet a specified design brief</li> <li>3.2 Explain how the design documents meet design brief</li> <li>3.3 Evaluate database design following feedback</li> </ul> |
|--|--|
| Indicative Content                     |  |

# • Relational database design: design fundamentals, logical vs. physical design

- Database documentation: stakeholders for database documentation, documentation types
- Database evaluation: performance evaluation benchmarks, verification, validation

| Software Engineering  |   |   |
|---|---|---|
| Unit Aims   | Leaners will gain an understanding of the need for Software |   |
|   | Engineering and the different methods and techniques.       |   |
|   |   |   |
| Unit Level  | 4   |   |
| Guided Learning Hours   | 48  |   |
| Credit Value  | 12  |   |
| Unit Grading Structure  | Pass  |   |
| Assessment Guidance   |   | unit, learners must achieve the learning                          |
|   |   | neet the standards specified by the assessment                    |
|   |   | nit. Additional assessment guidance is provided                   |
| Learning Outcomes – Th  |   | ample assignment brief.<br>Assessment Criteria – The learner can: |
| Learning Outcomes – Th  |   | Assessment Chtena – The learner can.                              |
| 1. Understand the software eng  | gineering   | 1.1 Explain software engineering principles                       |
| approach to the design and deve   | elopment  | 1.2 Explain software engineering methods and                      |
| of software   |   | techniques  |
|   |   | 1.3 Explain the modelling tools used for software                 |
|   |   | development and engineering                                       |
| Indicative Content  |   |   |
| <ul> <li>Software engineering principles, Software development process, Software development management</li> <li>Traditional software development approaches, Software process modelling, Agile software development</li> <li>Software modelling, system interaction, system structure, system behaviour</li> </ul> |   |   |
| 2. Understand key aspects of software 2.1 Explain software engineering practices  |   | 2.1 Explain software engineering practices                        |
| engineering   |   | 2.2 Evaluate the multidisciplinary nature of                      |
|   |   | software development  |
|   |   | 2.3 Explain the structure of software engineering                 |
| teams   |   |   |
| <ul> <li>Indicative Content</li> <li>Analysis tasks, Design tasks, Implementation tasks</li> <li>Software development and business information, Organisational aspects of system development</li> <li>Programming teams, Software engineering roles, Software engineering tasks</li> </ul>                          |   |   |
| 3. Be able to apply a software  |   | 3.1 Apply a software engineering approach to                      |
| engineering approach to softwar   | e and   | software development for information                              |
| systems development   |   | management  |
|   |   | 3.2 Use software engineering methods in                           |
|   |   | systems development   |
|   |   | 3.3 Explain the role of data verification and                     |
|   |   | validation in systems development                                 |
| <ul> <li>Indicative Content</li> <li>Project management for software development, project planning, business process reengineering</li> <li>Data modelling, Object oriented analysis and design, Behavioural models</li> </ul>  |   |   |
| Data verification, Data validation  |   |   |

| Systems Analysis and D   | Systems Analysis and Design  |  |  |
|--|--|--|--|
| Unit Aims  | Learners will be able to understand the systems development<br>life cycle and the role of systems methodologies within the life<br>cycle. Learners will be introduced to different fact finding and<br>problem solving techniques and they will use these to analyse<br>an existing system. They will recommend improvements and |  |  |
| Unit Level   | · · ·  | ent these improvements for a client.   |  |
| Guided Learning Hours  | 4  |  |  |
| Credit Value   | 12   |  |  |
| Unit Grading Structure   | Pass   |  |  |
| Assessment Guidance  |  | unit, learners must achieve the learning   |  |
|  |  | neet the standards specified by the assessment   |  |
|  |  | init. Additional assessment guidance is provided   |  |
|  |  | ample assignment brief.  |  |
| Learning Outcomes – The will:  |  | Assessment Criteria – The learner can:   |  |
| 1. Understand systems analysis design  | and  | <ul> <li>1.1 Explain the role of systems analysis and<br/>design in systems development</li> <li>1.2 Critically analyse the systems development<br/>lifecycle</li> <li>1.3 Explain how systems analysis can be<br/>influential in the redesign of a system</li> <li>1.4 Evaluate different design methods and<br/>methodologies that can be used to analyse<br/>systems</li> </ul> |  |
| Indicative Content   |  |  |  |
| <ul> <li>Systems development lifecycle – Waterfall, V-shape, Spiral.</li> <li>Systems development methods: SSADM, DSDM, Agile, Prototyping</li> <li>Systems analysis – Requirements elicitation, Stakeholder analysis, Systems design process</li> </ul> |  |  |  |
| 2. Be able to use systems analyst  | sis and  | 2.1 Select methodology to analyse an existing  |  |
| design techniques to recommen  |  | system justifying choice   |  |
| improvements to an existing sys  | tem  | 2.2 Use different information gathering  |  |
|  |  | techniques to review an existing system  |  |
|  |  | 2.3 Recommend improvements to an existing  |  |
| Indicative Content   |  | system   |  |
|  | echniques: interv  | iews, observation, documentation investigation,  |  |
| components.  | •  |  |  |
| <ul> <li>Design processes: Process specification, Data Flow Diagrams, Entity Relationship<br/>Diagrams, Using UML</li> </ul>   |  |  |  |

| 3. Be able to develop a solution to improve an existing system | <ul> <li>3.1 Present a solution to a client to improve an existing system, using an agreed format, justifying the proposed improvements</li> <li>3.2 Evaluate feedback from client on proposed solution and make amendments where appropriate</li> </ul> |
|--|--|
| Indicative Content   |  |

### •

- Present solution Feasibility plan, Requirements elicitation Design specification: Process specification, Data Flow Diagram, Entity Relationship • Diagram.
- Proposed solution: Implementation plan, Deployment plan, Post-implementation • planning.

| E-commerce Application   | S  |   |  |  |  |
|--|--|---|--|--|--|
| Unit Aims  | Learners will lea  | arn ab  | oout different e-commerce models and   |  |  |
|  | applications and   | d how   | they can be used to develop e-commerce   |  |  |
|  | in a small busin   | ess   | They will research the stages involved in  |  |  |
|  | setting up e-cor   | nmer  | ce and they will use e-commerce  |  |  |
|  | applications to r  | meet  | a client brief.  |  |  |
| Unit Level   | 4  |   |  |  |  |
| Guided Learning Hours  | 48   |   |  |  |  |
| Credit Value   | 12   |   |  |  |  |
| Unit Grading Structure   | Pass   |   |  |  |  |
| Assessment Guidance  | To achieve this unit, learners must achieve the learning   |   |  |  |  |
|  | outcomes and meet the standards specified by the assessment  |   | he standards specified by the assessment   |  |  |
|  | criteria for the unit. Additional assessment guidance is provided                                  |   | dditional assessment guidance is provided  |  |  |
| on the ATHE sample assignment brief.   |  |   |  |  |  |
| Learning Outcomes – Th   | e learner will:  | Ass   | sessment Criteria – The learner can:   |  |  |
| 1. Understand principles of e-co   | mmerce   | 1.1   | Explain e-commerce principles  |  |  |
|  |  | 1.2   | Explain the relationship between e-  |  |  |
|  |  |   | commerce principles and e-commerce   |  |  |
|  |  |   | models   |  |  |
| Indicative Content   |  |   |  |  |  |
| <ul> <li>Stages: Understanding e-commerce concepts, Overview of the role of the Internet in commerce, Issues relating to the creation of e-commerce applications.</li> <li>Differences between ecommerce and e-business: E-business defined. Overview of e-business models, Benefits of e-commerce for businesses, E-commerce versus e-business.</li> </ul>  |  |   |  |  |  |
| 2. Understand why small busine   | sses use   | 2.1   | Examine the opportunities and benefits e-  |  |  |
| e-commerce   |  |   | commerce offers a small business   |  |  |
|  |  | 2.2   | Analyse the threats that a small business has  |  |  |
|  |  |   | to consider when adopting e-commerce   |  |  |
|  |  | 2.3   | Explain solutions to threats to a small  |  |  |
|  |  |   | business when adopting e-commerce  |  |  |
|  |  | 2.4   | Evaluate e-commerce strategies that have   |  |  |
|  |  |   | proven successful in small businesses  |  |  |
| Indicative Content   | Indicative Content   |   |  |  |  |
| <ul> <li>Opportunities and benefits: Impact of e-commerce on organisations, SMEs and e-commerce, Towards a global marketplace</li> <li>Threats: Identifying e-commerce threats, Risk assessment in e-commerce, Dealing with Internet threats, Infrastructure practices techniques and tools for dealing with e-commerce threats</li> <li>Ecommerce strategies – Developing an e-commerce strategy, Assessing e-commerce readiness, Measuring effectiveness of e-commerce solutions.</li> </ul> |  |   |  |  |  |
| <ul> <li>commerce, Towards a</li> <li>Threats: Identifying e-c<br/>Internet threats, Infrast<br/>threats</li> <li>Ecommerce strategies</li> </ul>  | global marketplac<br>ommerce threats<br>ructure practices<br>– Developing an                       | ce<br>, Risk<br>techn<br>e-cor                | assessment in e-commerce, Dealing with<br>iques and tools for dealing with e-commerce<br>nmerce strategy, Assessing e-commerce   |  |  |
| <ul> <li>commerce, Towards a</li> <li>Threats: Identifying e-c<br/>Internet threats, Infrast<br/>threats</li> <li>Ecommerce strategies</li> </ul>  | global marketplac<br>ommerce threats<br>ructure practices<br>– Developing an<br>effectiveness of e | ce<br>, Risk<br>techn<br>e-cor<br>-comr       | assessment in e-commerce, Dealing with<br>iques and tools for dealing with e-commerce<br>nmerce strategy, Assessing e-commerce   |  |  |
| <ul> <li>commerce, Towards a</li> <li>Threats: Identifying e-c<br/>Internet threats, Infrast<br/>threats</li> <li>Ecommerce strategies<br/>readiness, Measuring e</li> </ul>   | global marketplac<br>ommerce threats<br>ructure practices<br>– Developing an<br>effectiveness of e | ce<br>, Risk<br>techn<br>e-cor<br>-comr       | assessment in e-commerce, Dealing with<br>iques and tools for dealing with e-commerce<br>nmerce strategy, Assessing e-commerce<br>merce solutions.   |  |  |
| <ul> <li>commerce, Towards a</li> <li>Threats: Identifying e-or<br/>Internet threats, Infrast<br/>threats</li> <li>Ecommerce strategies<br/>readiness, Measuring e</li> <li>3. Understand e-commerce mod</li> </ul>  | global marketplac<br>ommerce threats<br>ructure practices<br>– Developing an<br>effectiveness of e | ce<br>, Risk<br>techn<br>e-com<br>-com<br>3.1 | e assessment in e-commerce, Dealing with<br>iques and tools for dealing with e-commerce<br>nmerce strategy, Assessing e-commerce<br>merce solutions.   |  |  |
| <ul> <li>commerce, Towards a</li> <li>Threats: Identifying e-or<br/>Internet threats, Infrast<br/>threats</li> <li>Ecommerce strategies<br/>readiness, Measuring e</li> <li>3. Understand e-commerce mod</li> </ul>  | global marketplac<br>ommerce threats<br>ructure practices<br>– Developing an<br>effectiveness of e | ce<br>, Risk<br>techn<br>e-com<br>-com<br>3.1 | e assessment in e-commerce, Dealing with<br>iques and tools for dealing with e-commerce<br>merce strategy, Assessing e-commerce<br>merce solutions.<br>Evaluate e-commerce models that are<br>appropriate for small businesses |  |  |

- Ecommerce models: Modelling e-commerce transactions, Importance of e-commerce transaction models, Overview of e-commerce transaction models.
- Ecommerce revenue models: Creating online revenue, Historical evolution of ecommerce transactions, - Current and future e-commerce revenue models.
- E-marketing techniques: The role of the e- prefix in business sectors, E-marketing strategies, E-marketing models, E-marketing techniques and tools.

| 4. Understand e-commerce applications  | 4.1 Explain the effect of e-commerce applications  |  |
|--|--|--|
|  | on different types of organisations  |  |
|  | 4.2 Critically evaluate different applications that  |  |
|  | can be used to develop an e-commerce site  |  |
| Indicative Content   |  |  |
| <ul> <li>Ecommerce applications – Implementation e-commerce application requirements, E</li> </ul>   | ion strategies for e-commerce applications, Identifying<br>Designing an e-commerce solution. |  |
| 5. Be able create an e-commerce site using e-<br>commerce application  | 5.1 Create an e-commerce site in line with<br>industry standards                             |  |
|  | 5.2 Create an e-commerce site in line with<br>industry standards                             |  |
|  | 5.3 Review feedback on e-commerce site   |  |
|  | 5.4 Present solution to client showing appropriate use                                       |  |
|  | of an e-commerce application   |  |
| Indicative Content   |  |  |
| <ul> <li>Create online presence: Defining an organisation's e-commerce offerings, Identifying target<br/>audience for e-commerce solutions, Implementing an e-commerce application design against a<br/>given client brief.</li> </ul> |  |  |

- Feedback: Evaluating e-commerce model, Evaluating e-commerce application solution, Evaluating e-commerce application use.
- Present solution Deployment of e-commerce solutions, Integration with legacy systems, Maintenance and support of e-commerce applications, Catering for multiple platforms and different users.

| Human Computer Intera   | ction  |   |
|---|--|---|
| Unit Aims   | Learners will de   | velop understanding of principles and models of                   |
|   | Human Computer Interaction (HCI). They will evaluate existing  |   |
|   | HCI design and principles and use this to help them plan their |   |
|   | own prototype user interface. They will formulate design       |   |
|   |  | to plan an interface for a product. Learners will                 |
|   |  | lan to create a prototype. Learners will review                   |
|   |  | prototype based on user feedback.                                 |
| Unit Level  | 4  |   |
| Guided Learning Hours   | 48   |   |
| Credit Value  | 12   |   |
| Unit Grading Structure  | Pass   |   |
| Assessment Guidance   | To achieve this unit, learners must achieve the learning       |   |
|   | outcomes and n   | neet the standards specified by the assessment                    |
|   | criteria for this u  | init. Additional guidance is provided on the ATHE                 |
|   | sample assignm   | nent brief. Learners will design a relational                     |
|   | database in line   | with the client brief and they will need to                       |
|   | demonstrate ad   | vanced database skills during the                                 |
|   | implementation   | stage.  |
| Learning Outcomes – The   | e learner will:  | Assessment Criteria – The learner can:                            |
| 1. Understand principles of hum   | an   | 1.1 Evaluate principles of HCI                                    |
| computer interaction (HCI)  |  | 1.2 Critique interface design using the principles                |
|   |  | of HCI  |
|   |  | 1.3 Evaluate user interaction when using                          |
|   |  | different IT applications   |
| Indicative Content  |  |   |
| Cognitive and perceptual principles/laws: HCI origins, Perception and attention,<br>Norman's theory of interaction, Hyck-Hyman response-selection law, Fitts' law |  |   |
| -   |  | g universal user interfaces, Interfaces that support              |
|   |  | ction styles, Complex interfaces,                                 |
| Schneiderman's eight  | -  |   |
| Interaction: HCI Intera<br>Evaluating interfaces a  |  | e interaction design process, User analysis,<br>nts               |
|   | gamotroquionio   |   |
|   |  |   |
| 2. Be able to plan an interface for   | or a specified   | 2.1 Plan an interface for a specified application to meet a brief |
| application   |  | 2.2 Apply user interface design techniques to                     |
|   |  | meet a brief  |
|   |  | 2.3 Justify planned use of HCI principles and                     |
|   |  | techniques against industry standards                             |
|   |  |   |
|   |  |   |
| Indicative Content  |  |   |

- Plan: Storyboards, Navigation, Screen content
- Apply: Task centred user interface evaluation, Usability evaluation, Methods for evaluating user interfaces
- Justify: User interface specification, User interface fundamental principles, The role of user interface prototypes, User interface development process
- Conclude: User interface design basics, Best practices and principles in user interface design, Techniques for designing user interfaces

| 3. Be able to create a prototype using | 3.1 Generate a user interface for a specified    |
|--|--|
| HCI principles                         | product using planning documents                 |
|  | 3.2 Critique user experience of a prototype user |
|  | interface  |
|  | 3.3 Revise user interface in line with feedback  |
|  |  |

# Indicative Content

- Generate: Identifying application requirements for user interface design, Selecting success criteria for user interface design, Aligning user interface components to user functionality
- Critique: Performing a usability evaluation of user interfaces, Testing visual components, Assessing interface structure and layout, Testing alternative navigation designs, Evaluating interface accessibility
- Revise: Performing cooperative evaluation of interface designs, Obtaining user feedback, Assessing interface design success

| Information Systems Theory and Practice               |   |   |  |
|---|---|---|--|
| Unit Aims   | Learners will un  | nderstand the benefits of using information         |  |
|   | systems to plan   | n a project. They will use an information system to |  |
|   | plan and implement an information systems project.                |   |  |
| Unit Level  | 4   |   |  |
| Guided Learning Hours                                 | 48  |   |  |
| Credit Value  | 12  |   |  |
| Unit Grading Structure                                | Pass  |   |  |
| Assessment Guidance                                   | To achieve this   | s unit, learners must achieve the learning          |  |
|   | outcomes and n  | meet the standards specified by the assessment      |  |
|   | criteria for the unit. Additional assessment guidance is provided |   |  |
|   | on the ATHE sa  | ample assignment brief. Learners will find out      |  |
|   | about different i   | information systems project management tools        |  |
|   | and techniques  | s and use these to plan, implement and review       |  |
|   |   | nation systems project.                             |  |
| Learning Outcomes – The                               | e learner will:   | : Assessment Criteria – The learner can:            |  |
| 1. Understand information syste                       | ems used  | 1.1 Critically compare information systems used     |  |
| in organisations                                      |   | within different organisations                      |  |
|   |   | 1.2 Evaluate an information system used in an       |  |
|   |   | organisation  |  |
|   |   | 1.3 Analyse the information systems needs of a      |  |
|   |   | chosen functional area within a business            |  |
| Indicative Content                                    |   |   |  |
|   |   | e, IS structure, IS functionality                   |  |
| -   | •   | ess criteria, IS integration, IS deployment, IS use |  |
| <ul> <li>Information systems need</li> </ul>          | us. user needs a  | analysis, task needs analysis                       |  |
| 2. Be able to plan the development                    | ent of an   | 2.1 Prepare a detailed project plan for the         |  |
| information system                                    |   | development of information system                   |  |
|   |   | 2.2 Assess the feasibility of a proposed            |  |
|   |   | information system                                  |  |
|   |   | 2.3 Explain the requirements of the proposed        |  |
|   |   | information system                                  |  |
| Indicative Content                                    |   |   |  |
| <ul> <li>Project plan: project mar</li> </ul>         | agement technig   | ques, planning IS projects                          |  |
| <ul> <li>Feasibility planning: feasibility</li> </ul> |   |   |  |
|   |   | apture, requirements analysis, requirements         |  |
| specification, requiremen                             | nts report  |   |  |
| 3. Be able to implement an infor                      | mation  | 3.1 Implement an information systems project in     |  |
| systems project                                       |   | line with an agreed project plan and project        |  |
|   |   | management method                                   |  |
|   |   | 3.2 Evaluate the implementation of an               |  |
|   |   | information system                                  |  |
|   |   | 3.3 Recommend improvements to the                   |  |
|   |   | implemented information system                      |  |
| Indicative Content                                    |   |   |  |

- Implementing an IS project: project management stages
- Developing an information system: design, coding, testing, deployment
- Evaluating an information system: user evaluation, feedback mechanisms, testing
- Improving an information system: change requests, scalability, bug fixing, planned maintenance, support

| Unit Aims       Learners will investigate c         systems and evaluate the<br>an existing information sy<br>will review records, observe         legal and organisational re-<br>information system. They<br>improvements to a manage<br>will present their findings for<br>will present their findings for<br>will review records, observe         Unit Level       4         Guided Learning Hours       48         Credit Value       12         Unit Grading Structure       Pass         Assessment Guidance       To achieve this unit, I<br>outcomes and meet the<br>assessment         notice of the unit. Accord on the ATHE sample<br>a<br>management information         1. Understand management information<br>systems in organizations       1.1 Ana<br>manage         1.3 Exp<br>leg<br>why<br>systems       1.3 Exp<br>leg<br>why<br>systems         Indicative Content       •         •       Different types of information system – common features<br>information system, common features computer system/software, digital systems/applications         •       Data security including storage – backup, archive, etc.         •       Is for competitive advantage: Enterprise Systems,<br>Customer Relationship Management, Knowledge  | Management Information Systems  |  |  |
|---|---|--|--|
| an existing information sy<br>will review records, obser-<br>legal and organisational re-<br>information system. They<br>improvements to a manag-<br>will present their findings i         Unit Level       4         Guided Learning Hours       48         Credit Value       12         Unit Grading Structure       Pass         Assessment Guidance       To achieve this unit, I<br>outcomes and meet the<br>assessment<br>criteria for the unit. Act<br>provided<br>on the ATHE sample<br>a<br>management information<br>systems in organizations         1. Understand management information<br>systems in organizations       1.1 Ana<br>ma<br>na         1.3 Exp<br>leg<br>why<br>systems       1.3 Exp<br>leg<br>why<br>systems         Indicative Content       •         •       Different types of information system - common features<br>computer systems/applications         •       Different types of information system - common features<br>software, digital systems/applications         •       Data security including storage - backup, archive,<br>etc.         •       IS for competitive advantage: Enterprise Systems,<br>Customer Relationship Management, Knowledge         2. Be able to evaluate a management       2.1 Ana   | Learners will investigate different management information  |  |  |
| will review records, observe legal and organisational relinformation system. They improvements to a manage will present their findings for the unit of the unit of the unit of the unit of the unit. At a seessment for the unit. At a seessment information or the unit. At a provided on the ATHE sample a management information systems in organizations         1. Understand management information systems in organizations       1.1 Ana management information systems in organizations         1. Understand management information systems in organizations       1.1 Ana management information systems in organizations         1. Understand management information systems in organizations       1.3 Explex         1.3 Explex       1.3 Explex         1.4 Evalue systems/applications       1.4 Evalue systems/applications         2. Different types of information system - common features computer systems/applications       2.1 Ana         2. Be able to evaluate a management       2.1 Ana  |   |  |  |
| legal and organisational re-<br>information system. They<br>improvements to a manag-<br>will present their findings f         Unit Level       4         Guided Learning Hours       48         Credit Value       12         Unit Grading Structure       Pass         Assessment Guidance       To achieve this unit, I<br>outcomes and meet the<br>assessment<br>criteria for the unit. Act<br>provided<br>on the ATHE sample<br>a<br>management informat         Learning Outcomes – The learner<br>will:       Assess         1. Understand management information<br>systems in organizations       1.1 Ana<br>manage         1. Understand management information<br>systems in organizations       1.3 Exp<br>leg<br>why<br>systems         Indicative Content       1.3 Exp<br>leg<br>why<br>systems         • Different types of information – routine, exception,<br>• Features of information system – common features<br>information system, common features computer sy<br>software, digital systems/applications         • Data security including storage – backup, archive,<br>etc.       Is for competitive advantage: Enterprise Systems,<br>Customer Relationship Management, Knowledge         2. Be able to evaluate a management       2.1 Ana   | an existing information system in use by an organisation. They will review records, observe performance and understand the  |  |  |
| information system. They improvements to a manage will present their findings in the will present their findings in will present their findings in the will present the will information or the will present the will present their findings in the will present the will be wil | legal and organisational requirements that apply to an  |  |  |
| will present their findings in         Unit Level       4         Guided Learning Hours       48         Credit Value       12         Unit Grading Structure       Pass         Assessment Guidance       To achieve this unit, I outcomes and meet the assessment criteria for the unit. An provided on the ATHE sample a management information systems in organizations       To achieve this unit, I outcomes and meet the assessment criteria for the unit. An provided on the ATHE sample a management information systems in organizations         1. Understand management information systems in organizations       1.1 Ana management information system in organizations         1. Understand management information systems in organizations       1.3 Explete when system in the system in the system in the system is organizations         1. Understand management information system - common features information system - common features information system is system in the system is the system is the system in the system is the system is the system in the system in the system is the system in the system is the system in the system is the s   | will use their findings to recommend  |  |  |
| Unit Level       4         Guided Learning Hours       48         Credit Value       12         Unit Grading Structure       Pass         Assessment Guidance       To achieve this unit, I outcomes and meet the assessment criteria for the unit. Ad provided on the ATHE sample a management information systems in organizations       To achieve this unit, I outcomes and meet the assessment criteria for the unit. Ad provided on the ATHE sample a management information systems in organizations         1. Understand management information systems in organizations       1.1 Ana ma 1.2 Eva manage         1.3 Explex       I.3 Explex         Indicative Content       1.3 Explex         • Different types of information system - common features computer systems/applications       Data security including storage - backup, archive, etc.         • IS for competitive advantage: Enterprise Systems, Customer Relationship Management, Knowledge       2.1 Ana   | improvements to a management information system and they  |  |  |
| Guided Learning Hours       48         Credit Value       12         Unit Grading Structure       Pass         Assessment Guidance       To achieve this unit, I outcomes and meet the assessment criteria for the unit. And provided on the ATHE sample a management information systems in organizations       To the ATHE sample a management information systems in organizations         1. Understand management information systems in organizations       1.1 Ana magement information systems         1. Understand management information systems in organizations       1.3 Explex         1. Understand management information systems in organizations       1.3 Explex         1.3 Explex       1.3 Explex         1.4 Eva systems       1.4 Eva systems         1.5 Different types of information – routine, exception, Features of information system – common feature information system, common features computer system software, digital systems/applications         2 Data security including storage – backup, archive, etc.       IS for competitive advantage: Enterprise Systems, Customer Relationship Management, Knowledge         2. Be able to evaluate a management       2.1 Ana  | o a client.   |  |  |
| Credit Value       12         Unit Grading Structure       Pass         Assessment Guidance       To achieve this unit, I outcomes and meet the assessment criteria for the unit. Ad provided on the ATHE sample a management information systems in organizations       To achieve this unit, I outcomes and meet the assessment criteria for the unit. Ad provided on the ATHE sample a management information systems in organizations         1. Understand management information systems in organizations       1.1 Ana management information systems in organizations         1. Understand management information systems in organizations       1.3 Expleg when systems         1. Understand management information systems in organizations       1.3 Expleg when systems         1. Understand management information system in organizations       1.3 Expleg when systems         1. Understand management information system in organizations       1.3 Expleg when systems         1.3 Expleg when systems       1.4 Eva systems         1.4 Eva systems       1.4 Eva systems         1.4 Eva system       1.4 Eva systems         1.5 Features of information system – common features information system – common features information system – common features information system / common features information system – common features information system / common features computer systems         1.5 for competitive advantage: Enterprise Systems, Customer Relationship Management, Knowledge         2. Be able to evaluate a management       2.1 Ana  |   |  |  |
| Unit Grading Structure       Pass         Assessment Guidance       To achieve this unit, I outcomes and meet the assessment criteria for the unit. Ad provided on the ATHE sample a management information systems in organizations       To achieve this unit, I outcomes and meet the assessment criteria for the unit. Ad provided on the ATHE sample a management information systems in organizations         1. Understand management information systems in organizations       1.1 Ana ma 1.2 Eva manage         1. Understand management information systems in organizations       1.1 Ana ma 1.2 Eva manage         1.3 Explexe       I.3 Explexe         Indicative Content       1.3 Explexe         • Different types of information system – common features information system, common features computer systems/applications       1.3 Explexe         • Different types of information system – common features computer systems/applications       1.3 Explexe         • Different types of information system – common features computer systems/applications       1.3 Explexe         • Different types of information system – common features computer systems/applications       1.3 Explexe         • Different types of information system – common features computer systems/applications       1.4 Eva systems/applications         • Different types of information system – common features computer systems/applications       1.4 Eva systems/applications         • Different types of information system – common features computer systems/applications       1.4 Eva systems/applications   |   |  |  |
| Assessment Guidance       To achieve this unit, I outcomes and meet the assessment criteria for the unit. Ad provided on the ATHE sample a management information         Learning Outcomes – The learner will:       Assess         1. Understand management information systems in organizations       1.1 Ana management information and the systems in organizations         1. Understand management information systems in organizations       1.1 Ana management information and the systems in organizations         1. Understand management information systems in organizations       1.3 Expleg who systems         1.3 Expleg who systems       1.3 Expleg who systems         1.4 Eva systems       1.4 Eva systems         Indicative Content       Systems of information – routine, exception, Features of information system – common features computer system/ and system/ applications         • Different types of information system – common features computer system/ applications         • Data security including storage – backup, archive, etc.         • IS for competitive advantage: Enterprise Systems, Customer Relationship Management, Knowledge         2. Be able to evaluate a management       2.1 Ana  |   |  |  |
| outcomes and meet the assessment criteria for the unit. Ad provided on the ATHE sample a management information systems in organizations       Assess         1. Understand management information systems in organizations       1.1 Ana ma 1.2 Eva manage         1. Understand management information systems in organizations       1.1 Ana ma 2.2 Eva manage         1. Understand management information systems in organizations       1.1 Ana ma 2.2 Eva manage         1. Understand management information systems in organizations       1.1 Ana ma 2.2 Eva manage         1.3 Expleg       leg         why systems       1.3 Expleg         1.4 Eva systems       1.4 Eva 3.5 Systems         Indicative Content       Systems         • Different types of information – routine, exception, Features of information system – common features computer systems, common features computer system systems, digital systems/applications         • Data security including storage – backup, archive, etc.         • IS for competitive advantage: Enterprise Systems, Customer Relationship Management, Knowledge         2. Be able to evaluate a management       2.1 Ana  |   |  |  |
| provided<br>on the ATHE sample<br>a<br>management information         Learning Outcomes – The learner<br>will:       Assess         1. Understand management information<br>systems in organizations       1.1 Ana<br>ma<br>1.2 Eva<br>manage         1. Understand management information<br>systems in organizations       1.1 Ana<br>ma<br>1.2 Eva<br>manage         1.3 Exp<br>leg<br>whr<br>systems         1.4 Eva<br>systems         1.4 Eva<br>systems         1.4 Eva<br>systems         1.5 Exp<br>leg<br>whr<br>systems         1.6 Exp<br>leg<br>whr<br>systems         1.7 Exp<br>leg<br>whr<br>systems         1.8 Exp<br>leg<br>whr<br>systems         1.9 Exp<br>leg<br>whr<br>systems         1.4 Eva<br>systems         1.5 Features of information – routine, exception,<br>Features of information system – common features<br>information system, common features computer sy<br>software, digital systems/applications         1.5 for competitive advantage: Enterprise Systems,<br>Customer Relationship Management, Kowledge         2. Be able to evaluate a management       2.1 Ana   | earners must achieve the learning he standards specified by the   |  |  |
| a<br>management informat         Learning Outcomes – The learner<br>will:       Assess         1. Understand management information<br>systems in organizations       1.1 Ana<br>mat<br>1.2 Eva<br>manage         1. Understand management information<br>systems in organizations       1.1 Ana<br>mat<br>na         1.1 Ana<br>mat<br>nanage       1.1 Ana<br>mat<br>na         1.2 Eva<br>manage       1.3 Exp<br>leg<br>why<br>systems         1.3 Exp<br>leg<br>why<br>systems       1.3 Exp<br>leg<br>why<br>systems         Indicative Content       1.3 Exp<br>leg<br>why<br>systems         • Different types of information – routine, exception,<br>• Features of information system – common features<br>information system, common features computer sy<br>software, digital systems/applications         • Data security including storage – backup, archive,<br>etc.         • IS for competitive advantage: Enterprise Systems,<br>Customer Relationship Management, Knowledge         2. Be able to evaluate a management       2.1 Ana  | dditional assessment guidance is  |  |  |
| management information         Learning Outcomes – The learner         will:       Assess         1. Understand management information       1.1 Ana         systems in organizations       1.1 Ana         manage       1.2 Eva         manage       1.3 Exp         leg       wh         systems       1.3 Exp         leg       wh         systems       1.4 Eva         systems       1.5 Exp         leg       wh         systems       1.4 Eva         systems       1.5 for competitive advantage – common features         information system, common features computer system       1.5 for competitive advantage: Enterprise Systems, Customer Relationship Management, Knowledge         2. Be able to evaluate a management       2.1 Ana <th>assignment brief. Learners will design</th>   | assignment brief. Learners will design  |  |  |
| Learning Outcomes – The learner       Assess         1. Understand management information       1.1 Ana         systems in organizations       1.1 Ana         1.2 Eva       manage         1.3 Exp       leg         who       systems         1.4 Eva       systems         Indicative Content       1.4 Eva         • Different types of information – routine, exception,       Features of information system – common features information system, common features computer systems/applications         • Data security including storage – backup, archive, etc.       1.5 for competitive advantage: Enterprise Systems, Customer Relationship Management, Knowledge         2. Be able to evaluate a management       2.1 Ana   | tion overteem   |  |  |
| will:Assess1. Understand management information<br>systems in organizations1.1 Ana<br>mail<br>1.2 Eval<br>manage1.2 Eval<br>manage1.3 Expleg<br>leg<br>what<br>systems1.3 Expleg<br>leg<br>what<br>systems1.4 Eval<br>systemsIndicative Content1.4 Eval<br>systems• Different types of information – routine, exception,<br>• Features of information system – common features<br>information system, common features computer systems<br>of tware, digital systems/applications• Data security including storage – backup, archive,<br>etc.• IS for competitive advantage: Enterprise Systems,<br>Customer Relationship Management, Knowledge2. Be able to evaluate a management2.1 Ana  | tion system.  |  |  |
| systems in organizations       manage         1.2 Evaluation       1.2 Evaluation         1.3 Explag       leg         who       systems         1.4 Evaluation       systems         Indicative Content       1.4 Evaluation         • Different types of information – routine, exception,       Features of information system – common features computer systems         • Different types of information system – common features computer systems       organization         • Different types of information system – common features computer systems       organization         • Different types of information system – common features computer systems       organization         • Different types of information system – common features computer systems       organization         • Different types of information system – common features computer systems       organization         • Different types of information system – common features computer systems       organization         • Data security including storage – backup, archive, etc.       organization         • IS for competitive advantage: Enterprise Systems       organization         • IS for competitive advantage: Enterprise Systems       organization         • Ustomer Relationship Management, Knowledge       organization         • Is able to evaluate a management       organization         • Is able to evaluate a managemen   | ment Criteria – The learner can:  |  |  |
| <ul> <li>Ieg<br/>why<br/>sys</li> <li>1.4 Eval</li> <li>Systems</li> </ul> Indicative Content <ul> <li>Different types of information – routine, exception,</li> <li>Features of information system – common features<br/>information system, common features computer sy<br/>software, digital systems/applications</li> <li>Data security including storage – backup, archive,<br/>etc.</li> <li>IS for competitive advantage: Enterprise Systems,<br/>Customer Relationship Management, Knowledge</li> <li>2. Be able to evaluate a management</li> </ul>  | lyse the use of data within an existing<br>nagement information system<br>luate different features of<br>ement information systems  |  |  |
| Indicative Content         • Different types of information – routine, exception,         • Features of information system – common feature information system, common features computer sy software, digital systems/applications         • Data security including storage – backup, archive, etc.         • IS for competitive advantage: Enterprise Systems, Customer Relationship Management, Knowledge         2. Be able to evaluate a management       2.1 Anagement  | lain the importance of compliance with<br>al and organizational requirements<br>en using a management information<br>tem  |  |  |
| Indicative Content         • Different types of information – routine, exception,         • Features of information system – common feature information system, common features computer systems/applications         • Data security including storage – backup, archive, etc.         • IS for competitive advantage: Enterprise Systems, Customer Relationship Management, Knowledge         2. Be able to evaluate a management       2.1 Ana   | luate links between information   |  |  |
| <ul> <li>Different types of information – routine, exception,</li> <li>Features of information system – common feature information system, common features computer sysoftware, digital systems/applications</li> <li>Data security including storage – backup, archive, etc.</li> <li>IS for competitive advantage: Enterprise Systems, Customer Relationship Management, Knowledge</li> <li>2. Be able to evaluate a management</li> <li>2.1 Ana</li> </ul>   | s and competitive advantage   |  |  |
| <ul> <li>Features of information system – common features information system, common features computer systems, digital systems/applications</li> <li>Data security including storage – backup, archive, etc.</li> <li>IS for competitive advantage: Enterprise Systems, Customer Relationship Management, Knowledge</li> <li>2. Be able to evaluate a management</li> <li>2.1 Anagement</li> </ul>   |   |  |  |
| Customer Relationship Management, Knowledge2. Be able to evaluate a management2.1 Ana   | <ul> <li>information system, common features computer systems, systems and application software, digital systems/applications</li> <li>Data security including storage – backup, archive, hack, ethical use of information, DPA etc.</li> </ul> |  |  |
| -   |   |  |  |
| information system in an organisation mar<br>perf<br>2.2 Eva<br>info  | lyse how an organisation uses a   |  |  |

# **Indicative Content**

- MIS and performance: managing assets and operations (equipment, software, networks, individuals, procedures, resources)
- MIS effectiveness: impact of MIS, principles for effective information management

| 3. Be able to plan improvements to a management information system   | <ul><li>3.1 Present recommendations to improve a management information system</li><li>3.2 Plan further system development to an information system</li></ul> |  |
|--|---|--|
| Indicative Content   |   |  |
| <ul> <li>MIS improvements: studying people, studying technology, studying organizations</li> <li>MIS extensions: process identification, process selection, assessment of current</li> </ul> |   |  |

 Mis extensions: process identification, process selection, a processes, process plan, process changes

# **Payment Plan**

#### Please find below available fee payment plans:

#### 6 Months - GBP £1250

• Payment option (a): GBP £416 x 3 monthly instalments

• Payment option (b): GBP £1187.50 x 1 instalment (We offer 5% bursary on total fee for students opting to pay in full)

#### 9 Months - GBP £950

- Payment option (c): GBP £190 x 5 monthly instalments
- Payment option (d): GBP £475 x 2 quarterly instalments

• Payment option (e): GBP £902.50 x 1 instalment (We offer 5% bursary on total fee for students opting to pay in full)

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