

Liverpool John Moores University

Title: BUSINESS INFORMATION SYSTEMS
Status: Definitive
Code: **5506CP** (103548)
Version Start Date: 01-08-2013

Owning School/Faculty: Arts, Professional and Social Studies
Teaching School/Faculty: Dublin Business School

Team	Leader
Alistair Beere	Y

Academic Level: FHEQ5
Credit Value: 24.00
Total Delivered Hours: 77.00
Total Learning Hours: 240
Private Study: 163

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	40.000
Practical	35.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Practice	AS1	Practical Assessment	15.0	
Essay	AS2	Project (theory and practical)	35.0	
Exam	AS3	Examination	50.0	2.00

Aims

*To develop in learners a knowledge and understanding of how business information systems support business processes, decision making and competitive advantage.
To develop learners critical awareness of the key role of information systems in the modern business environment.*

To facilitate learners to explore issues in, and approaches to, the design, development, and implementation of information systems.

To enable learners to identify and select the most appropriate technology to address particular application requirements.

To develop learners' practical computing skills and their ability to use a variety of software tools and applications to aid management decision making.

Learning Outcomes

After completing the module the student should be able to:

- 1 Explain the role of information systems in today's competitive business environment.
- 2 Evaluate the different steps and activities involved in the development of a business information system.
- 3 Appraise approaches to a system development project, identifying the most appropriate approach for different situations.
- 4 Explain the role of the Internet and the World Wide Web in a firm's information technology infrastructure.
- 5 Identify challenges posed by information systems and wireless technology.
- 6 Design and build spread sheets and databases for business purposes, utilising project management and modelling tools to manage the activity.

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

PRACTICAL	5						
PROJECT	2	3	5				
EXAM	1	2	3	4	5	6	

Outline Syllabus

1. *Information Systems in Business Information Systems in Business: Marketing, Production, Finance, HR; The System Model; Organisational structure and levels of decision-making, Data V Information, Information Quality, Categories and characteristics of Management Information Systems: TPS, MIS, DSS, ES, EIS; Database Management Systems (DBMS): structures, uses and business applications. Use of IS in different industries and functions.*

2. *Systems Development Concepts The context of systems development, The System Development Life Cycle (SDLC), Linear and iterative approaches to the SDLC, Prototyping concepts, Formal methodologies (SSADM, DSDM). Options for achieving a new information system (build or buy).*

3. *Systems Analysis & Design Project selection and justification. Requirements analysis. Investigation methods. Design methodologies, tools and techniques, Procedure specification, CASE tools, Prototyping tools, Dialogue design.*

4. *Implementation & Maintenance Systems implementation strategies, Hardware and software acquisition, Outsourcing, Systems evaluation, Performance criteria, Issues and problems in evaluation, System maintenance strategies.*

5. *Internet technologies as an Information System Internet technology and business*

usage. E-Commerce business models. Intranet and Extranet use of Internet technologies. Internet communications, web-based models

6. System Security implications for IT personnel and users. Strategies for system security, planning, policies, controls and audits, information systems ethics, computer crime

7. Project Management Overview of project management elements and activities, Stages and levels in project management, Project management structures, tools and techniques, Role of the Project Manager. Application of project management techniques.

8. Practical Data Management Applications Data relationships: Introduction to entity modelling and data normalisation. Practical development of database applications. Linking multiple tables, Use of forms and queries and reports.

9. Practical Business Modelling Applications Business models, variables and relationships, Sensitivity, optimisation and goal-seeking analysis. Practical development of model-based applications using spread sheet tools.

10. Enterprise Information Systems: Enterprise Resource Planning (ERP), Customer Relationship Management (CRM), Supply Chain Management

11. Information systems investment and strategic advantage, valuing information systems the business case, technology/strategy fit, Globalisation and IS, cultural and demographic challenges

12. New trends and emerging technologies, opportunities for business, evaluating new technologies and their application to current and new business processes, operations and systems. Introduction to Cloud computing, cloud computing architecture and services and opportunities for business.

Learning Activities

Lectures and practicals.

References

Course Material	Book
Author	Valacich & Schneder
Publishing Year	2011
Title	Information Systems Today
Subtitle	
Edition	5th
Publisher	Pearson
ISBN	

Course Material	Book
Author	Laudon & Laudon
Publishing Year	2011
Title	Management Information Systems
Subtitle	Managing the digital firm
Edition	12th
Publisher	Pearson
ISBN	

Course Material	Book
Author	O'Brien & Marakas
Publishing Year	2012
Title	Introduction to Information Systems
Subtitle	
Edition	16th
Publisher	McGraw-Hill
ISBN	

Course Material	Book
Author	LaBerta, Catherine
Publishing Year	2012
Title	Computers Are Your Future
Subtitle	
Edition	12th
Publisher	Pearson
ISBN	

Notes

In this module learners will focus on the role information systems play in the modern business environment. Learners will develop awareness of how IS can support management and examine the effect of the world wide web as well as new and emerging technologies on businesses. They will also appreciate the various approaches to acquiring a new information system and select the approach most suitable for different enterprises. Learners will build on practical skills in database, spread sheets and project management tools