DBS SCHOOL OF BUSINESS

LJMU DEGREE PROGRAMMES

MODULE PROFORMA

Module Title: Business Information Systems   **Level: 2**

Assessment: Continuous Assessment: 50%   Examination: 50%

Prerequisite: Information and Communications Technology   Credits: 12

Objectives:

- To develop knowledge and understanding of business information systems and a critical awareness of their key role in the modern business environment.
- To explore issues in, and approaches to, the design, development, and implementation of business information systems.
- To enable students to identify and select the most appropriate technology to address particular application requirements.
- To develop students' practical computing skills and their ability to use a variety of software tools and applications.

Learning Outcomes:

On completion of this module, students will be able to:
- Demonstrate appreciation of the use and role of business information systems in the modern business environment.
- Display understanding of the different steps and activities involved in the development of a business information system and critically evaluate the issues, which arise in this context.
- Evaluate alternative approaches to a system development project and identify the most appropriate approach for different situations.
- Design and build database / spreadsheet / for business purposes and utilise project management and modelling tools to plan, schedule, model and control such activity.

Syllabus:

Information Systems in Business
- Information Systems in Business: Marketing, Production, Finance, HR; The System Model; Organisational decision-making, 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. Organisational structure

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).

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

Implementation & Maintenance

- Systems implementation strategies, Hardware and software acquisition, Outsourcing, Systems evaluation, Performance criteria, Issues and problems in evaluation, System maintenance strategies.

Internet technologies as an Information System

- Internet technology and business usage. Intranet and Extranet use of Internet technologies. Internet communications.

System Security

- Security implications for IT personnel and users. Strategies for system security.

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.

Practical Data Management Applications

- Data relationships: Introduction to entity modelling and data normalisation. Use of tools such as Visio for drawing such models. Practical development of database applications. Linking multiple tables, Use of forms and queries and reports.

Practical Business Modelling Applications

- Business models, variables and relationships, Sensitivity, optimisation and goal-seeking analysis. Practical development of model-based applications using spreadsheet tools.