BN2228 – SYSTEMS ANALYSIS

Module Number: BN2228

Module Title: Systems Analysis

Number of Aston Credits: 10

Total Number of ECTS Credits: 5
(European Credit Transfer)

Staff Member Responsible for the Module:

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> Operations & Information Management Group
>
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>
> Availability: Please see office hours on door or group administrator, John Morley, ABS266, Extension 3236

Pre-Requisite(s) for the Module: BN1160 Business Computing
                                              (or equivalent)

Module Learning Outcomes:

Upon successful completion of the module students will be able to:
   (a) Knowledge and Understanding

- Understand modelling techniques which help analyse an organization's systems.

- Understand the benefits of building these models and the contexts in which they can act as a support to decision making.

(b) Cognitive and Analytical skills

- To appreciate how decision making can be informed by these models.

(c) Key/Transferable Skills

- To reinforce the ideas presented in this module by means of group project work involving the design of an information system (A linked module, BN2229)

(d) Subject Specific Skills

- Feel confident with Conceptual Data Modeling & Entity Relationship Diagrams

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Module Content:

Week 1   The role of information management in an organisation

Week 2-5   The effective management of information within/across organisations
Organisation and information management
Different types of information to support different levels of decision making
IT and strategic advantage

Week 6-8   Process Modeling & Data Flow Diagrams
Week 9-10 Conceptual Data Modeling & Entity Relationship Diagrams

Week 11   Review

International Dimensions:

Topics and case studies will be related to the globalisation of business.

Corporate Connections:

The approaches discussed in this module have recently been applied by the lecturers in industrial settings, and these experiences will be discussed with students.

Link to Research: I

T business value. The main goal of my research is to answer the question: *How IT creates and delivers business value?* After two decades of business value of information technology research, business executives and researchers continue to question the value of IT investments. I am interested to explore the evolving role of IT and the changing nature of its contribution to organizational value creation.

Information technology adoption is another topic relevant to this module.

Learning and Teaching Rationale and Methods:

a) Teaching will be through lectures, tutorials, videos and guided reading. The lectures are designed to introduce the topics and the direction for further reading. Tutorials will be designed for developing their practical knowledge by analysing and discussing the cases studies in the set text. In addition, students can 'learn by doing' in the subsequent systems analysis project module (BN2229).

b) Duration

Lectures	12 hours
Tutorials	12 hours
Preparation for tutorials	12 hours

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Reading	20 hours
Coursework	20 hours
Revision	22 hours
Exam	2 hours
Total	**100 hours**

Ethical Approval:

This module does not require any primary research and no ethical approval will be necessary.

Assessment and Feedback Rationale and Methods:

The assessment is via a closed book examination (80%) and group case analysis and participation in class discussions (20%). In order to produce an individual student mark, confidential peer assessment forms will be used.

The examination assesses learning outcomes 1 and 2.

Students are encouraged to utilise lecturer office hours to obtain more detailed feedback and advice.