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Definitive Module Document (DMD)

MODULE

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2AAD0024 (A 05/6)

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Information Systems ...

Module Code:2AAD0024

Title of Module

Full Title: Information Systems Analysis and Design

Short Title: Info Sys Analy & Des

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Version: 1

Credit Points: 15

Level / ECTS Level: 2

First Offered: 1/9/2004 00-00-00

6. Home Department:

AAD

7. Departments(s) contributing to teaching:

9. Module Aims:

- * develop their knowledge and understanding of Information Systems
- * perform systems analysis and design
- * develop a knowledge of current Information Systems applications in the manufacturing industry

10a. Learning Outcomes: Knowledge and Understanding:

- * describe the principal components of an information system and their strategic importance for the success of modern organisations
- * explain the characteristics of the three information systems designed to support each unique level of an organisation- transaction processing systems, management information systems, and executive information systems
- * discuss the role of information systems for automation, organisational learning and strategic support.
- * describe consumer-focused and business-focused electronic commerce.
- * describe major phases of the systems development life cycle and relevant methodologies in the design of an information system.
- * describe the role of database, database management systems and their utilisation in manufacturing organisations

10b. Learning Outcomes: Skills and Attributes:

- * apply systems analysis methodologies to design a suitable manufacturing information system

* use a suitable software package to demonstrate a working prototype

11. Module Content

11a Module Content:

Students will be introduced to the components and functions of Information Systems. The concept of database systems will be explained. System analysis and design methodologies will be utilised to develop typical Information Systems from cases. The principle of Business Process Reengineering will also be introduced. The evolution and development of E-Commerce in the manufacturing industry will be investigated. With the aid of Real World company cases, the integration of business processes and Enterprise applications with particular reference to manufacturing will be analysed.

11b. Further details on how the learning outcomes of the module will be achieved:

The intended learning outcomes are facilitated through a combination of approaches to learning and teaching, typically this will include lectures and tutorials, practical activities and a number of real world case studies. These activities will be supported by the module team and by encouraging the students to access a variety of resources, eg Studynet, academic texts and case studies.

Starting with real world cases of company information systems students would be encouraged to participate in discussion in tutorials and brought to understand what information systems are and how they have become a vital part of modern organisations. Students are introduced to the technology, people, and organisational components of an information system. This is followed by examples of how information systems are used to support organisational strategy and enable competitive advantage. Student would be shown how to formulate and present the business case for a system, and explained why and how companies are continually looking for new ways to use technology for competitive advantage.

Databases and database management systems are then described and discussed in terms of their importance for successful, modern organisations. As more and more organisations are using the Internet and Web to do business with customers, the building of intranets to support internal processes, and building of extranets to interact with other firms would be described in conjunction with the development of E-commerce.

Information Systems development – this will follow a traditional systems development approach, as well as more contemporary approaches such as prototyping, rapid application development. Students will be required to perform hands-on system analysis and design using case studies. Data modelling, system analysis and design methodologies would be introduced at this stage. Students would be required to apply text concepts to demanding problems such as analysing business processes for an enterprise system or creating a new Internet business. During laboratory/tutorial sessions, a database program would be introduced and instruction details will be made available on the Studynet. Students would be expected to learn a database program, and develop a working prototype for a real world case study.

Enterprise systems, which are a growing popular type of information system, used to integrate information and span of organisations' boundaries would also be discussed.

12. Language of Delivery:

English

13. Language of Assessment:

English

14. Assessment Details (Academic):

Coursework: 100

Exam: 0

Other: The assessment will typically consist of--

Phase test - (40%)

Individual assignment - (60%)

Students must attain an overall pass in their assessments

Each Assessment satisfies a selection of the learning outcomes.

Assessment Notes:

15. Locations(s):

UH HATFIELD

16. Pre and Co-Requisite:

Pre-Requisite

Co-Req

Prohibited

17. Subject Board of Examiner/s:

TECH/DES/INF SYS COURSES (MSE)

18. Comments

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