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Module Code:MMSE0006

Title of Module

Full Title: MANUFACTURING INFORMATION SYSTEMS

Short Title: MANUF INF SYSTEMS

MODULE

MMSE0006 (A 05/6)

MANUFACTURING INFORM...

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Version: 1

Credit Points: 15

Level / ECTS Level: M

First Offered: 22/9/1997 00-00-00

6. Home Department:

AAD

7. Departments(s) contributing to teaching:

9. Module Aims:

- * acquire analytical tools for the design and evaluation of information systems within a manufacturing context.
- * acquire knowledge in the principle requirements of inter-connected computer systems and skills necessary to understand and solve problems of structure, operation and management of integrated computer systems
- * develop an understanding of the role of information systems relevant to manufacturing business, and the effectiveness and relevance of eCommerce within the organisation.

10a. Learning Outcomes: Knowledge and Understanding:

- * demonstrate and explain the role of Information Systems within the manufacturing environment
- * demonstrate and explain the requirements of inter-connected computer systems.

10b. Learning Outcomes: Skills and Attributes:

- * apply analytical tools relevant to the design and implementation of information systems
- * solve problems of the structure, operation and management of integrated computer systems
- * critically evaluate the application of eCommerce tools within a modern manufacturing environment.
- * develop an IT/IS implementation programme taking into account, resource, quality and cost issues.

11. Module Content

11a Module Content:

By studying this course the students will gain an understanding of the role of integrated information systems

relevant to manufacturing organisation. Through applications of systems analysis and design techniques, the students will be able to develop skills in systems modelling techniques, project management and acquire a broad understanding of networking topologies and eCommerce with relevant applications.

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

OVERVIEW

This course will focus on developing an integrated information system for planning and control of a manufacturing system and its implementation using structured techniques for analysis and design.

FOUNDATIONS OF INFORMATION SYSTEMS IN BUSINESS

System description and definitions

Major areas of information systems and competing information technology

INFORMATION SYSTEMS ANALYSIS AND DESIGN

System Modelling Techniques, Data Flow Diagrams, Data Modeling (E-R diagrams). Data Dictionary. Entity Life History

PROTOTYPE DEVELOPMENT

Use of case studies, creation of a database on case study(ies) and follow on from analysis and design methodologies.

PROJECT PLANNING MANAGEMENT & CONTROL

Process organisation planning and analysis, resource allocation, estimating and budget setting/control. Network planning/analysis, project monitoring, implementation.

NETWORKING

Local and wide area networks, physical system requirements and construction response, distributed databases.

eBusiness- Modern IS trends, eCommerce, eBusiness technology, eBusiness and support, support applications, EDI, use of intranet and extranet within the business.

12. Language of Delivery:

English

13. Language of Assessment:

English

14. Assessment Details (Academic):

Coursework: 100

Exam: 0

Other: Assessments are through in-course assignments and will be largely on an individual basis

Assessment Notes:

See Section 22

15. Locations(s):

UH HATFIELD

16. Pre and Co-Requisite:

Pre-Requisite

None

Co-Req

None

Prohibited

None

17. Subject Board of Examiner/s:

BUS/MGMT/QUAL COURSES (MSE)

18. Comments

An aggregate pass must be attained

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