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Definitive Module Document (DMD)

MODULE

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2AAD0030 (A 05/6)

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Module Code:2AAD0030

Title of Module

Full Title: Operations Management 1

Short Title: Ops Man 1

Operations Managemen...

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Version: 1

Credit Points: 15

Level / ECTS Level: 2

First Offered: 26/9/2005 00-00-00

6. Home Department:

AAD

7. Departments(s) contributing to teaching:

9. Module Aims:

- develop their knowledge and understanding of the factors which influence the design of an operational system
- select appropriate techniques for the design of an operational system

10a. Learning Outcomes: Knowledge and Understanding:

- explain the relationship between product and process design
- relate basic cost accounting elements to the operations activity
- describe the principles of time and method study
- recognise the commercial risks resulting from process design

10b. Learning Outcomes: Skills and Attributes:

- apply analytical techniques to operational systems
- search, select and apply appropriate standard data in the design of an operational process

11. Module Content

11a Module Content:

This module will give an introduction to Operations Management and will enable the students to develop their understanding of operational processes, techniques, planning and control systems. It will address a range of operational issues and the increased importance and role of Operations Management.

Students will typically be expected to examine case studies in a range of manufacturing organisations and industries and respond accordingly using the tools and techniques provided in the module.

The module will provide an overview of production management techniques, which will include the role of MRP and its relationship within the production process. It will introduce the use forecasting and capacity planning and the impact of forecasting within the operations / manufacturing area/s. The management and application of cost control will be developed In support of operational decisions.

Students will be expected to gain an understanding of job and work placed design, which will include work-study, plant layout, ergonomics, performance measures, and Health and Safety at work.

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

The learning outcomes will typically be achieved through the use of lectures, tutorials, case studies, and information systems such as the UH Studynet service. Students will be expected to be able to compare and contrast the manufacturing planning process within different manufacturing organisations and the impact that this has on the business.

Subject areas covered will be-

Planning and Control systems and processes - The application of MRP and its integration with the Master Production Schedule, Bill Of Material, Inventory Status File, Capacity Plan Process Technology and design - linking the types of demand to process design and technology and Group

Forecasting - Qualitative and quantitative analysis (Judgmental or statistical) and the impact of forecasts on capacity planning linking to product/market life cycle

Operational and business costings - prime costs, overheads and their allocation, standard costing, marginal costing, break-even analysis, and operational performance measures.

Job Design and Work Study - work measurement techniques & method study, their principles, application and relationship

Ergonomics & Health and Safety at work

Performance measures and operational decisions - The impact of cost, speed, dependability, quality and flexibility and the effect on job flow time, WIP, makespan, past due, inventory,

Capacity planning - definitions and measurements, its relationship to forecasting, cost accounting and work study

12. Language of Delivery:

English

13. Language of Assessment:

English

14. Assessment Details (Academic):

Coursework: 50

Exam: 50

Other:

Assessment Notes:

Phase Test/individual assignment - 25%

Group work - 25%

End of module unseen exam - 50%

Overall pass required, subject to a maximum grade of E2 if not both coursework and examination are passed. A reasonable attempt at both elements of assessment is required for the attainment of a pass grade.

Each Assessment satisfies a selection of the learning outcomes

15. Locations(s):

UH HATFIELD

16. Pre and Co-Requisite:

Pre-Requisite

Co-Req

Prohibited

17. Subject Board of Examiner/s:

18. Comments

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