

MODULE SPECIFICATION

- 1 **Title:** CO705 Operating Systems (CMK010)
- 2 **Department:**  
Computing, Business & Management at Mid-Kent College
- 3 **Start Date:** Feb 2006 (Semester 4 of 4)
- 4 **Number of Students:** 15-20
- 5 **Modules to be withdrawn:** None
- 6 **Level:** Level I
- 7 **Credits:** 15 credits
- 8 **Semester:** Semester 4 of 4 (Year 2)
- 9 **Prerequisites:** CO702 Networks (CMK008)
- 10 **Programmes of Study:** Foundation Degree in Information Technology  
Higher National Diploma and Certificate in IT
- 11 **Subject-specific learning outcomes:** Students who successfully complete this module will be able to:
  - Apply underlying IT concepts and principles outside the context in which they were first studied (A2)
  - Appreciate the operation of the major functional components of a computer system (A5)
  - Use basic methods of computer communication, network concepts; communication between computers and people and the control and operation of computers (A7)
  - Use programming languages, software tools, packages and utilities and the structuring of data and information. (A6)
  - Apply the principles of effective information management, information organisation and information retrieval skills to information of various kinds. (C16)
- 12 **Generic learning outcomes:** Students who successfully complete this module will be able to:
  - Identify and analyse criteria and specifications appropriate to specific problems and plan strategies for their solution (B10)
  - Deploy appropriate practices and tools for the specification, design, implementation, and evaluation of computer-based systems (B12)
  - Undertake further training, develop existing skills and acquire new competences that will enable them to assume significant responsibility within organisations (D19)
- 13 **Synopsis:**

This unit concentrates on the fundamental concepts of operating systems, that is, how memory and processes are managed, how the file structure of an operating system is organised and how input/output is achieved. The unit also looks at how operating systems are installed, configured and administered.

Technically this unit is based on the UNIX/Linux operating system and these are compared to Microsoft's operating system products.
- 14 **Indicative Reading List:**

Operating Systems;2003; Ritchie Colin; Letts  
Operating Systems Design and Implementation; 1997; Tannenbaum Andrew and Woodhull Albert; Prentice Hall  
The Linux A-Z; 1997; Phil Cornes; Prentice Hall
- 15 **Learning and Teaching Methods:**

Acquisition is through lecture/seminar/tutorial and practical laboratory work: This is supported by reading and web based material. There is 2 hours lecture/seminar/tutorial per week and two hours supported laboratory practical per week. It is estimated that this will require approximately 70 contact hours and a total study time of 150 hours per student.

16 **Assessment Methods:**

Assessment is through a combination of short unseen written examinations, individual and group assessed coursework and projects. Coursework consists of both written reports and practical assignments. Examination will generally be related to some subject-specific learning outcomes while coursework and projects will cover most learning outcomes, the proportion being 30% examination and 70% coursework.

17 **Implications for learning resources, including staff, library, IT and space:**

Staff will be required to deliver this module, through teaching, supervision and assessing. Materials from the reading list should be available through the library and additional materials via the web. IT resources will be required to support practical activities.

18 **SENDA statement:**

As far as can be reasonably anticipated, the curriculum, learning and teaching methods and forms of assessment do not present any non-justifiable disadvantage to students with disabilities.

**Statement by the Director of Learning and Teaching:** "I confirm I have been consulted on the above module proposal and have given advice on the correct procedures and required content of module proposals"

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Director of Learning and Teaching

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Date

**Statement by the Head of Department:** "I confirm that the Department has approved the introduction of the module and will be responsible for its resourcing"

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Head of Department

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Date