1. **Title of the module**

COMP7110 (CO711) Operating Systems and Intranet Implementation

1. **School or partner institution which will be responsible for management of the module**

School of Computing/Mid Kent College

1. **The level of the module (Level 4, Level 5, Level 6 or Level 7)**

Level 5

1. **The number of credits and the ECTS value which the module represents**

15 credits (7.5 ECTS)

1. **Which term(s) the module is to be taught in (or other teaching pattern)**

Spring and summer

1. **Prerequisite and co-requisite modules**

Prerequisites:

COMP7010 (CO701) Database Design and Development

COMP7020 (CO702) Networks

COMP7120 (CO712) Multimedia and Web Programming

1. **The programmes of study to which the module contributes**

Foundation Degree in IT, HND in IT

1. **The intended subject specific learning outcomes.
On successfully completing the module students will be able to:**
2. Apply a knowledge and critical understanding of the established principles of an IT professional and of the way in which these principles have developed.
3. Use IT concepts and principles outside the context in which they were first studied, including, where appropriate, the application of these principles in an employment context.
4. Use basic computer communication and network concepts; and carry out the control and operation of computers.
5. Use the main methods of enquiry and show an ability to evaluate critically the appropriateness of different approaches to solving problems in the IT field.
6. Carry out problem identification and analysis and design development.
7. Communicate information, arguments and analysis, in a variety of forms, to specialist and non-specialist audiences and deploy key IT techniques effectively.
8. Apply the principles of effective information management, information organisation, and information retrieval skills to information of various kinds.
9. **The intended generic learning outcomes.
On successfully completing the module students will be able to:**
10. Discuss the modelling and design of computer-based systems in a way that demonstrates comprehension of the trade-off involved in design choices.
11. Deploy appropriate theory, practices and tools for the specification, design, implementation, and evaluation of computer-based systems.
12. Evaluate systems in terms of general quality attributes and possible trade-offs presented within the given problem.
13. Effectively deploy the tools used for the construction and documentation of software.
14. **A synopsis of the curriculum**

This module takes the student through the specification, installation and commission of an intranet server to providing an interactive database driven system. Issues considered include access control, both from the web and the maintenance points of view.

The module examines the structure of modern operating systems and considering hardware and software options to be used for a web server. The students install and configure an operating system to provide an appropriate secure intranet service. The addition of a database service and scripting software is covered. It includes combined use of the above elements to provide an interactive database driven intranet web site.

1. **Reading list (Indicative list, current at time of publication. Reading lists will be published annually)**

Web Design with HTML, CSS, JavaScript and jQuery Set; 2014; Duckett J; Wiley

Modern Operating Systems; 4th edition 2014; Tanenbaum & Bos; Pearson

Linux Bible; 2015; Negus C; Wiley

Modern PHP: New Features and Good Practices; 2015; Lockhart J; O’Reilly

Apache HTTP Server; 2010; Apache Software Foundation; Network Theory Limited

MySQL Cookbook; 2014; DuBois P; O’Reilly

1. **Learning and teaching methods**

Total contact hours: 70

Private study hours: 80

Total study hours: 150

1. **Assessment methods**
	1. Main assessment methods

Examination (1.5 hrs) - 30%

Individual written assignment - 35%

Group written assignment - 35%

13.2 Reassessment methods

Like for like

1. ***Map of module learning outcomes (sections 8 & 9) to learning and teaching methods (section12) and methods of assessment (section 13)***

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Module learning outcome** | *8.1* | *8.2* | *8.3* | *8.4* | *8.5* | *8.6* | *8.7* | *9.1* | *9.2* | *9.3* | *9.4* |
| **Learning/ teaching method** |  |  |  |  |  |  |  |  |  |  |  |
| **Private Study** | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| *lecture* | √ |  | √ | √ |  | √ | √ |  | √ | √ | √ |
| *laboratory* | √ | √ |  | √ | √ |  | √ | √ |  | √ |  |
| *tutorial* | √ | √ | √ |  | √ | √ |  | √ | √ |  | √ |
| **Assessment method** |  |  |  |  |  |  |  |  |  |  |  |
| *Individual assignment* | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| *Group assignment* | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| *Examination* | √ | √ |  | √ | √ |  | √ | √ | √ | √ |  |

1. **Inclusive module design**

The Partner Institution recognises and has embedded the expectations of current equality legislation, by ensuring that the module is as accessible as possible by design. Additional alternative arrangements for students with Inclusive Learning Plans (ILPs)/declared disabilities will be made on an individual basis, in consultation with the relevant policies and support services.

The inclusive practices in the guidance (see Annex B Appendix A) have been considered in order to support all students in the following areas:

a) Accessible resources and curriculum

b) Learning, teaching and assessment methods

1. **Campus(es) or centre(s) where module will be delivered**

Mid Kent College (Maidstone)

1. **Internationalisation**

The topics addressed by this module relate to a field of international importance, given the global role of computers in today's technological innovation. The topics covered by this module are international, being identical worldwide and independent of traditional spoken language.

1. **Partner College/Validated Institution**

Mid Kent College

1. **University School responsible for the programme**

School of Computing

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**Revision record – all revisions must be recorded in the grid and full details of the change retained in the appropriate committee records.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date approved | Major/minor revision | Start date of the delivery of revised version | Section revised | Impacts PLOs (Q6&7 cover sheet) |
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Revised FSO Feb 2018