1. **Title of the module**

COMP4000 (CO400) Introduction to Computer Architecture

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 4

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)**

Autumn and Spring

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

None

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

Foundation Degree in IT; HND in IT; HNC in IT

1. **The intended subject specific learning outcomes.  
   On successfully completing the module students will be able to:**
2. Apply underlying IT concepts and principles.
3. Identify the major functional components of a computer system.
4. Use basic computer communication and network concepts; and carry out the control and operation of computers.
5. Specify, design and implement computer-based systems.
6. Evaluate systems in terms of general quality attributes and possible trade-offs presented within the given problem.
7. **The intended generic learning outcomes.  
   On successfully completing the module students will be able to:**
8. Identify and analyse criteria and specifications appropriate to specific problems and plan strategies for their solution.
9. Analyse the extent to which a computer based system meets the criteria defined for its current use and future development.
10. Undertake further training, develop existing skills and acquire new competences that will enable them to assume significant responsibility within organisations.
11. Make succinct presentations to a range of audiences about technical problems and their solution.
12. **A synopsis of the curriculum**

This is aimed at practitioners who need sufficient knowledge of computer architecture to make decisions on the selection and specification of systems and to use computer hardware and software effectively. It looks at how operating systems can be used to customise user environments. It provides an introduction on how computer networks are planned, designed and implemented.

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

Upgrading and Repairing PCs, 22nd edition; 2015; Mueller SM; Que

Computer Systems Architecture, 2nd edition; 2008; Newman, Gaura and Hibbs; Crucial

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

Networking: A Beginner’s Guide 6th edition; 2013; Hallberg B; McGraw Hill

Computer Organization and Design; 2013; Patterson D and Hennessy J; Morgan Kaufman

1. **Learning and teaching methods**

Total contact hours: 70

Private study hours: 80

Total study hours: 150

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

Written assignment 1 – 35%

Written assignment 2 – 35%

Online examination (1 hr) – 30%

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* | *9.1* | *9.2* | *9.3* | *9.4* |
| **Learning/ teaching method** |  |  |  |  |  |  |  |  |  |
| **Private Study** | √ | √ |  | √ | √ | √ | √ | √ |  |
| *lecture* | √ | √ |  |  | √ | √ | √ |  | √ |
| *laboratory* | √ | √ | √ | √ | √ |  | √ | √ | √ |
| *tutorial* | √ |  | √ | √ | √ | √ | √ | √ |  |
| **Assessment method** |  |  |  |  |  |  |  |  |  |
| *Written assignments* | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| *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 that is of international importance, given the global role of computers in today's technological innovation. The topics covered by this module are international in nature, 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) |
| 24/05/17 | Minor | September 2017 | 11-13 | No |
|  |  |  |  |  |

Revised FSO Feb 2018