UNIVERSITY of BRADFORD

Module Descriptor

Module Details	
Module Title:	Introduction to Computing
Module Code:	COS3003-B
Academic Year:	2019-20
Credit Rating:	20
School:	Department of Computer Science
Subject Area:	Computer Science
FHEQ Level:	FHEQ Level 3
Pre-requisites:	
Co-requisites:	

Contact Hours	
Type	**Hours**
Lectures	12
Laboratory	12
Directed Study	176

Availability	
Occurrence	**Location / Period**
BDA	University of Bradford / Semester 2 (Feb - May)

Module Aims

To introduce foundational concepts relevant to the field of Computer Science
To develop practical computing skills through laboratory exercises and/or case studies

Outline Syllabus

Transferable and technical skills/competencies expected from a computing professional
Foundational mathematical concepts underpinning computer science
Introductory programming and algorithmic thinking
Design and engineering for the creation of software systems
Hardware and software of modern computer systems
Technologies and languages underpinning the Internet

Learning Outcomes	
1	Describe and use basic computing terminology and concepts
2	Demonstrate understanding of theoretical concepts that underpin the discipline of computing
3	Apply practical computing skills to a variety of real world application areas

Learning, Teaching and Assessment Strategy

The module is taught using a mixture of lectures that deliver theoretical concepts and terminology, as well as practical lab sessions that build upon l to develop practical skills in a variety of computing topics.

The module is assessed through coursework delivered part way through the module to facilitate timely feedback on student progress and attainment, and a closed book examination assessing understanding of theoretical concepts. Formative feedback on student work and attainment is given through weekly lab sessions where tutors will work closely with students on weekly practical exercises, allowign staff to guide student learning in a real-time manner.

Mode of Assessment

Type	Method	Description	Length	Weighting
Summative	Examination - closed book	An examination requiring the demonstration of knowledge and understanding of theoretical concepts relevant to computer science	2 hours	70%
Summative	Coursework	An exercise involving the design and/or development of computer software	1200 words or equivalent	30%

Reading List

To access the reading list for this module, please visit https://bradford.rl.talis.com/index.html.

Please note:

This module descriptor has been published in advance of the academic year to which it applies. Every effort has been made to ensure that the information is accurate at the time of publication, but minor changes may occur given the interval between publishing and commencement of teaching. Upon commencement of the module, students will receive a handbook with further detail about the module and any changes will be discussed and/or communicated at this point.