

Introduction to Computing

Module Code:	COS3003-B
Academic Year:	2018-19
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 Periods

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

Module Learning Outcomes

On successful completion of this module, students will be able to...

- 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 I 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	Weightin g	Final Assess'
Summative	Examination - closed book	An examination requiring the demonstration of knowledge and understanding of theoretical concepts relevant to computer science	2 hours	70%	Yes
Summative	Coursework	An exercise involving the design and/or development of computer software	1200 words or equivalent	30%	No

Legacy Code (if applicable)

NC-0003D

Reading List

To view Reading List, please go to [rebus:list](#).