

Module Details	
Module Title	Software Development
Module Code	COS7009-B
Academic Year	2020/1
Credits	20
School	Department of Computer Science
Subject Area	Computer Science
FHEQ Level	FHEQ Level 7
Pre-requisites	N/A
Co-requisites	N/A

Contact Hours	
Type	Hours
Online Lecture (Synchronous)	12
Laboratories	12
Directed Study	164

Availability	
Occurrence	Location / Period
BDA	University of Bradford / Semester 1

Module Aims
The aim of this module is to introduce basic programming skills through a modern object-oriented programming language, design methods and tools.

Outline Syllabus
1. Object-oriented programming. 2. Object-oriented design method. 3. Modern operating system and its tools. 4. Programming constructs, data and control structures. 5. Advanced topics in programming. 6. Testing and debugging programs

Learning Outcomes	
Outcome Number	Description
01	demonstrate an advanced and systematic knowledge of design and development through testing of software applications using object oriented principle.
02	analyse and effectively use integrated development environment.
03	apply modern paradigms to software development transferring theoretical concepts to practical applications.
04	solve complex software development problems both systematically and creatively.

Learning, Teaching and Assessment Strategy
Programme delivered in a series of lectures, supported by supervised laboratory work. Module assessment is one coursework assignment which test skills, practical understanding and theoretical concepts on: Object-oriented concepts and applications. Operating Systems. Basic Algorithms and Object-oriented applications, Object-oriented design and Object-oriented programming in depth.

Mode of Assessment				
Type	Method	Description	Length	Weighting
Summative	Coursework	Individual coursework development of big data solution	N/A	100%

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.

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