

Module Details	
Module Title:	Cloud Computing
Module Code:	COS7044-B
Academic Year:	2019-20
Credit Rating:	20
School:	Department of Computer Science
Subject Area:	Computer Science
FHEQ Level:	FHEQ Level 7 (Masters)
Pre-requisites:	
Co-requisites:	

Contact Hours	
Type	Hours
Lectures	12
Demonstration	6
Laboratory	24
Directed Study	158

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

Module Aims
The module will introduce the modern approach of distributed computing and services. Propose a topology of cloud computing. It will offer scalable computing on demand. OpenStac will be used as the tool to support.

Outline Syllabus
Cloud Computing Architecture: Platform, Infrastructure and Software. Cloud Platform Components for SaaS and Processing. Virtual Machines. Scalability and BradStack Case Study.

Learning Outcomes	
1	Demonstrate understanding of large scale multi servers.
2	Able to use and design hybrid cloud i.e. private and public ones.
3	3. Demonstrate understanding of how topologies can affect cloud services and its impact on the security.
4	Able to to setup a cloud system using open software.

Learning, Teaching and Assessment Strategy
Lectures and lab sessions make up the contact time. The lectures will present the relevant theory underpinning the subject and the practical will enable students to apply the theory to practical situations. Assessment is by coursework. 100% report of 3,000 words. Supplementary will be fixing same report.

Mode of Assessment				
Type	Method	Description	Length	Weighting
Summative	Laboratory Report	Reflect on Cloud Computing, installation and set up.	-3000 words	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.