

Cloud Computing

Module Code:	COS7044-B
Academic Year:	2018-19
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 Periods

Occurrence	Location/Period
	University of Bradford / Academic Year (Sept - 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.

Module Learning Outcomes

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

- 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	Final Assess'
Summative	Laboratory Report	Reflect on Cloud Computing, installation and set up.	0-3000 words	100%	Yes

Legacy Code (if applicable)

Reading List

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