

Large Scale Data Driven Applications

Module Code:	COS6009-B
Academic Year:	2018-19
Credit Rating:	20
School:	Department of Computer Science
Subject Area:	Computer Science
FHEQ Level:	FHEQ Level 6
Module Leader:	Mr Abdul Karim Hammoud Sadik

Additional Tutors:

Pre-requisites:

Co-requisites:

Contact Hours

Type	Hours
Lectures	24
Tutorials	12
Laboratory	12
Directed Study	152

Availability Periods

Occurrence	Location/Period
NLA	Namal College / Semester 1 (Sep - Jan)
NLA	Namal College / Semester 2 (Feb - May)
BDA	University of Bradford / Semester 1 (Sep - Jan)
BDA	University of Bradford / Semester 2 (Feb - May)

Module Aims

To develop an understanding of the theory and practice of large scale data driven applications.

Outline Syllabus

Study of developments in data models subsequent to the relational model. Study of developments in features supported by DBMSs. Study of database design for systems with advanced features. Study of issues related to big data. Service oriented architectures, orchestration of services, and support technologies.

Module Learning Outcomes

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

- 1 demonstrate a knowledge and understanding of the theory and practice of large scale data driven applications.
- 2 apply skills in the design, and implementation of large scale data driven applications.
- 3 demonstrate competence in applying theoretical skills to practical problems.

Learning, Teaching and Assessment Strategy

A combination of lectures/tutorials/lab sessions/directed study. Concepts, principles & theories explored in formal lectures, practised & demonstrated in laboratory classes and practised and discussed in tutorials. Practical skills developed in laboratory sessions. Oral feedback is given during labs & tutorials. Coursework will assess the application of practical skills to the knowledge base of the module, the examination will assess the wider learning outcomes expressed in the descriptor. Supplementary coursework will involve repairing deficiencies in the original submission.

Mode of Assessment

Type	Method	Description	Length	Weighting	Final Assess'
Summative	Coursework	Design and critical analysis of a web-based application for providing a range of functions on a large dataset	0 hours	50%	No
Summative	Coursework	Implementation of the design produced in component 001	0 hours	50%	Yes

Legacy Code (if applicable)

CM-0359D

Reading List

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