

Module Details	
Module Title	Big Data Visualisation (PG)
Module Code	COS7046-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)	24
Tutorials	3
Laboratories	22 (online Laboratory)
Directed Study	151

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

Module Aims
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Outline Syllabus
(1) Visualization techniques and user requirements; (2) Analysis techniques to critique examples of visualizations; (3) Interpretation of multidimensional, big and complex data formats; (4) Application of data visualisation to real-life problems; (5) Knowledge extraction from big data using data visualizations.

Learning Outcomes	
Outcome Number	Description
01	Demonstrate an advanced understanding of modern data visualisation methods and systems.
02	Demonstrate a practical and advanced ability in the implementation of data visualisation techniques in practical situations.
03	Deploy enhanced technical analysis and problem solving skills, advanced written and presentation skills.

Learning, Teaching and Assessment Strategy
The delivery of the module will consist of online lectures and online lab classes supplemented by students own lab work and directed study. Lectures will be recorded and made available to students afterwards. Formal lectures will outline the theoretical principles of data visualisation. The coursework will involve students in the practical visualisation of real-life data sets. Supplementary assessment is as original.

Mode of Assessment				
Type	Method	Description	Length	Weighting
Summative	Coursework	Exercises on the development of visualisation solution to a real-life problem.	N/A	50%
Summative	Coursework	Exercises on the development and creation of big data visualisation system.	N/A	50%

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.