

## Data Visualisation (PG)

|                |                                |
|----------------|--------------------------------|
| Module Code:   | GAV7021-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                | 24    |
| Tutorials               | 3     |
| Laboratory              | 24    |
| Directed Study          | 148   |
| Examinations DO NOT USE | 1     |

### Availability Periods

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

### Module Aims

The aim of this module to provide you with key principles and techniques of data visualization. By completing this module you will gain advanced knowledge and skills on developing methods and techniques of data visualisation to improve comprehension, communication, and decision making in big data applications.

### Outline Syllabus

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(1) Visualization techniques given particular requirements imposed by the data;

- (2) Analysis techniques to critique examples of visualizations;
- (3) Interpretation of multidimensional formats and presentation techniques;
- (4) Application of data visualisation techniques for data relating specific audience type, task or source;
- (5) Creation of multiple versions of digital visualizations using various programming and software packages.

## Module Learning Outcomes

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

- 1 demonstrate an advanced understanding of modern data visualisation methods and systems.
- 2 demonstrate a practical and advanced ability in the implementation of data visualisation techniques in practical situations.
- 3 deploy enhanced technical analysis and problem solving skills, advanced written and presentation skills.

## Learning, Teaching and Assessment Strategy

Lectures, lab sessions and workshops make up the contact time. The lectures will present the relevant theory underpinning the subject. Workshops and practicals will enable you to apply the theory to practical situations. The theory will be tested with an examination and the practical elements will be assessed through 2 pieces coursework. Supplementary assessment: will be to repair deficiency in original submissions and examination.

## Mode of Assessment

| Type      | Method                    | Description                                                                                        | Length  | Weighting | Final Assess' |
|-----------|---------------------------|----------------------------------------------------------------------------------------------------|---------|-----------|---------------|
| Summative | Examination - closed book | Examination - closed book 1 hour                                                                   | 1 hour  | 40%       | Yes           |
| Summative | Coursework                | Individual coursework (1000 word written report) to assess the applications of data visualisation. | 0 hours | 30%       | No            |
| Summative | Coursework                | Individual coursework (1000 word written report) to assess on the understanding data visualisation | 0 hours | 30%       | No            |

techniques.

**Legacy Code (if applicable)**

EM-4091D

**Reading List**

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