

Data Visualisation

Module Information

2022.01, Approved

Summary Information

Module Code	5125COMP
Formal Module Title	Data Visualisation
Owning School	Computer Science and Mathematics
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 5
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
Computer Science and Mathematics

Learning Methods

Learning Method Type	Hours
Lecture	22
Practical	33

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
JAN-CTY	CTY	January	12 Weeks

Aims and Outcomes

Aims	To develop critical awareness of the effective presentation of results/data To develop the skills to produce effective data presentations to highlight the unique properties of specific data sets
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Compare and contrast appropriate approaches to the presentation of data/results.
MLO2	2	Appraise appropriate means for pre-processing data for presentation.

Module Content

Outline Syllabus	Outline Syllabus Understanding visual perception Limits of short-term memory Visually encoding data for rapid perception Gestalt principles of visual perception Seven stages of the data visualisation process Acquire Parse Filter Mine Represent Refine Interact Chart Types Time series Mapping geographical data Connections and correlations Scatterplot Maps Trees, Hierarchies and Recursion Networks and Graphs Design Guidelines Interactivity Highlighting Filters Hyperlinking Sizing Scrollbars Fitting views Information Dashboard Design Infographics Case studies in data visualisation
Module Overview	
Additional Information	This is a practical module that generates effective data visualizations rather than presenting static images, thus developing real hands-on experience of data visualisation.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	Data Visualisation	50	0	MLO2
Centralised Exam	Infographic Dashboard Develop	50	0	MLO1, MLO2

Module Contacts