

Liverpool John Moores University

Title: Spreadsheets and Data Presentation
Status: Definitive
Code: **4202AMP** (121879)
Version Start Date: 01-08-2021

Owning School/Faculty: Engineering
Teaching School/Faculty: Engineering

Team	Leader
Karl Jones	Y

Academic Level: FHEQ4 **Credit Value:** 10 **Total Delivered Hours:** 22
Total Learning Hours: 100 **Private Study:** 78

Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	11
Practical	11

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Portfolio	AS1	Portfolio of evidence	100	

Aims

To provide an audio production student with a rudimentary knowledge of fundamental maths, statistics and data analysis, using spreadsheet formulae and graphs, integrated within a technical report.

Learning Outcomes

After completing the module the student should be able to:

- 1 Perform fundamental mathematical and statistical analysis of data using spreadsheets
- 2 Graphically present technical data in an appropriate manner and integrate into other presentation forms and reports

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

Portfolio of evidence	1	2
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Outline Syllabus

*Spreadsheet usage; cell types, absolute and relative referencing
 BIDMAS and use of formulae
 Multi-sheet referencing
 Data cleansing and table organisation (pivot tables)
 Graphs; types, uses and presentation
 Basic algebra and equation manipulation
 Ratio, proportion, rates of change
 Binary and hexadecimal conversion and simple digitization
 Statistical methods, Mean, Mode Median and range, confidence, correlation, regression and Anova
 Technical report layout and writing
 Graphical and tabular data presentation and integration within reports.
 Discussion of data within technical reports.
 Macros and inserting sound files into spreadsheets
 Basic electronics laboratory skills*

Learning Activities

Lectures, tutorials and practical sessions

Notes

This level 4 module is an essential integrating element of the first year of study. It provides students with relevant mathematical and technical skills to support all aspects of their university studies