

Module Information

2022.01, Approved

Summary Information

Module Code	4202AMP
Formal Module Title	Spreadsheets and Data Presentation
Owning School	Engineering
Career	Undergraduate
Credits	10
Academic level	FHEQ Level 4
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
Engineering

Learning Methods

Learning Method Type	Hours
Lecture	11
Practical	11

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
SEP-CTY	CTY	September	12 Weeks

Aims and Outcomes

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.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Perform fundamental mathematical and statistical analysis of data using spreadsheets
MLO2	2	Graphically present technical data in an appropriate manner and integrate into other presentation forms and reports

Module Content

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
Module Overview	
Additional Information	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

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Portfolio	Portfolio of evidence	100	0	MLO1, MLO2

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Karl Jones	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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