LIVERPOOL JOHN MOORES UNIVERSITY

Basic Statistics

Module Information

2022.01, Approved

Summary Information

Module Code	4505IRICBT
Formal Module Title	Basic Statistics
Owning School	Humanities and Social Science
Career	Undergraduate
Credits	15
Academic level	FHEQ Level 4
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
LJMU Partner Taught

Partner Teaching Institution

Institution Name
International College of Business and Technology

Learning Methods

Learning Method Type	Hours
Lecture	45

Module Offering(s)

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

Aims and Outcomes

Aims	The module aims to provide students with an understanding of the role of statistical methodologies in business through both the study of the theory of probability and statistics, and hands-on practice using statistical software with a variety of data types and models.

After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Calculate and interpret descriptive statistics to summarize a data set.
MLO2	2	Calculate and interpret inferential statistics to summarize a data set.
MLO3	3	Solve a range of problems using probability theory.
MLO4	4	Demonstrate the ability to utilize a software package (Excel and SPSS) for a range of statistical applications.

Module Content

Outline Syllabus	1. Introduction to basic concepts of statistics and statistical thinking2. Explain the difference between data sets3. Frequency Measures and Graphical Representation of Data4. Measures of Central Tendency and Dispersion5. Association of two variables6. Probability and elements of probability theory7. Random variables and probability distributions8. Inferential statistics9. Hypothesis testing10. Linear regression
Module Overview	
Additional Information	Recommended reading:Nolan, S.A. & Heinzen, T.E., (2007), Statistics for Behavioural Sciences, WorthPublishersSharma, J.K., (2008), Business Statistics, (2nd edition), Person PublicationMason, R.D. & Lind, D.A. (1999), Statistical Techniques in Business & Economics, (10th edition), McGraw Hill

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Exam	3 hour exam	100	3	MLO1, MLO2, MLO3, MLO4

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Matthew Hill	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings