

Liverpool John Moores University

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Title: Computer and Numerate Skills
Status: Definitive
Code: **4604TECYPC** (121706)
Version Start Date: 01-08-2021
Owning School/Faculty: Engineering
Teaching School/Faculty: YPC International College (Kolej Antarabangsa YPC)

Team	Leader
Karl Jones	Y

Academic Level: FHEQ4 **Credit Value:** 20 **Total Delivered Hours:** 74
Total Learning Hours: 200 **Private Study:** 126

Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	24
Practical	48

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Essay	AS1	Statistical case study	50	
Exam	AS2	Examination	50	2

Aims

This module provides an introduction to key numerical techniques used in the business world to aid decision making.

It aims to provide the statistical foundations that are necessary in any area of business.

To introduce different data types and the approaches required for analysis.

To familiarise students with modern business and technical computer applications.

Learning Outcomes

After completing the module the student should be able to:

- 1 Recognise the importance of using spreadsheets and other computer application software for the purposes of problem solving
- 2 Identify different data types, manipulate data and carry out statistical analysis including presenting data using appropriate graphs
- 3 Summarise quantitative data using packages such as Excel
- 4 Describe a range of analytical and diagnostic quantitative methods and tools to aid decision making in business

Learning Outcomes of Assessments

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

Statistical case study	2	3
Examination	4	1

Outline Syllabus

Introduction to computer application software (Word, Excel and Access)

Introduction to Statistics

Data Presentation

Frequency distribution of quantitative and qualitative variables

Pivot table and pivot chart

Descriptive statistics

Measures of location, dispersion and skewness

Correlation Analysis

Simple and multiple regression analysis

Continuous Distribution (the Normal)

Distribution of random variables

Random number generation tool

Learning Activities

Lectures and Practical (including computer laboratory practical)

Notes

This module aims to provide students with the knowledge and skills to use computer applications and numerate concepts that can be used in other modules in this programme. The students will be able to familiarise with the statistical methods and selected application software through the practical sessions and assessments.

