

COURSE SPECIFICATION DOCUMENT

NOTE: ANY CHANGES TO A CSD MUST GO THROUGH ALL OF THE RELEVANT APPROVAL PROCESSES, INCLUDING LTPC.

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| Academic School/Department: | Business and Economics |
| Programme: | BA (Hons) Economics with Combined Studies BA (Hons) Business Administration with Combined Studies |
| FHEQ Level: | 4 |
| Course Title: | Computer Applications in Management |
| Course Code: | MGT 4205 |
| Course Leader: | Parviz Dabir-Alai |
| Student Engagement Hours: | 120 |
| Lectures: | 30 |
| Seminar / Tutorials: | 15 |
| Independent / Guided Learning: | 75 |
| Semester: | Fall/Spring/Summer |
| Credits: | 12 UK CATS credits 6 ECTS credits 3 US credits |

Course Description:

This is an introductory course comprised of a broad overview of information systems and technology, as principally used in support of business processes and decision-making activities. An in-depth discussion of the relationship, between organizations and information systems is a fundamental element of the course. Topics include: computer hardware and software, operating systems, the use of excel in management practice, social issues related to information systems. The use of excel provides a common thread in the topics covered throughout the course.

Prerequisites: MTH 4120

Aims and Objectives:

MGT 4205 aims to familiarize the student with a wide range of features available in Microsoft's Excel spreadsheet software. The objective is to provide the student with skills across a suite of problems and analyses in business and economics such that possibly unrelated but similar problems may be readily solved in both academic and real-world settings. Wherever possible problems and analyses will be set so as to enhance and consolidate the mathematical and statistical skill of the student as well as providing additional exposure to topics being studied in other courses.

Programme Outcomes

A6
B4
C1, C2
D1-5

A detailed list of the programme outcomes are found in the Programme Specification. This is located at the Departmental/Schools page of the portal.

Learning Outcomes:

Upon completion of this course, a successful student should be able to

Knowledge and Understanding

1. Develop a broad understanding of information systems and technology.
2. Develop an understanding of the relationship between computer hardware, software and operating systems.

Cognitive Skills

1. Understanding some of applications of Microsoft Excel for performing business analysis.
2. Understanding the role of basic statistical information in assisting decision making within business and economics.

Practical and / or Professional Skills

1. Numeracy and quantitative skills including the framing of data, its interpretation and extrapolation for furthering our understanding of business and economics related issues.
2. Learning to apply straightforward modelling techniques and regression analysis to understanding the relationship between economic and other variables.
3. Learning about the use of Excel in identifying seasonality of data.

Key Skills

1. Ability to develop analytical skills through use of IT and specifically MS Excel.

Indicative Content:

1. Linear regression and correlation (First Principles)
2. Linear Regression for Economics and Business Applications.
3. Introduction to Discounted Cash Flow calculations.
4. Curvilinear regression models of trend theory.
5. Curvilinear models applied to economic data.
6. Internal Rates of Return (I.R.R.).
7. Using Solver and Goal Seek.
8. Constrained optimization problems using Excel's Solver.
9. Optimization applications in Business and Economics.
10. Importing data in Comma Separated Variable format.
11. Times series analysis

