

Module: QUANTITATIVE METHODS FOR ACCOUNTANTS by *Dr M Teresa Lunati*

Code: ACC1009

20 credits at level HE4

Description and Purpose of Module

The aims of this module are:

- To introduce the student to mathematical models used to solve relevant Business/Management problems.
- To develop the learners' ability to recognise the limitations of these models.
- To develop the students' ability to use appropriate numerical, mathematical and statistical skills to solve these models, as part of Personal Development Planning.
- To develop the learners' ability to interpret and communicate the results.

Indicative Syllabus Content

Mathematics for Business: Functions, Graphs, Inequalities

Utilisation of Limited Resources: Linear programming

Financial mathematics: Interest/compounding, Discounting/Present value, Loans/Repayments

Introduction to statistics: Data Collection, Data presentation, Frequency distributions, Mean, Median, Mode, Standard deviation

Regression analysis: Least squares regression line, Forecasting

Use of probability: Introduction to probability. Binomial, Poisson and Normal distributions. Confidence Intervals

Learning, Teaching and Assessment

The learning outcomes will be assessed repeatedly in both assignment work and by examination. In both of these methods of assessment the learner will be given one or more Business/Management problem to solve and use appropriate Quantitative methods to solve them.

Learning Outcomes and Assessment Criteria

	Learning Outcomes when you have successfully completed this module you will:	Assessment Criteria to demonstrate that you have achieved the learning outcome you will:
1.	Create a mathematical model to solve suitable Business/ Management problems.	Demonstrate ability to understand and analyse the Business/Management problem.
2.	Use appropriate Quantitative methods to obtain an accurate solution to the problem, as part of Personal Development Planning.	Acquire the necessary information and apply the appropriate method to find the solution.
3.	Understand the limitations of the model formulated and of the solutions obtained.	Evaluate where appropriate how accurately the model and solution will replicate the "real-life" problem.
4.	Understand the Business problem and break it down into manageable units.	Identify the relevant issues associated with the problem.
5.	Apply knowledge of appropriate Quantitative techniques to solve the problem.	Use appropriate Quantitative methods.
6.	Use mathematical and statistical techniques to solve Business/Management problems.	Identify the appropriate method of solution for a particular problem and perform accurately the necessary calculations & Analyse the results.
7.	Use a scientific calculator & Organise your time.	Use a calculator to perform accurate calculations & Complete work in a given time.
8.	Communicate findings to an appropriate audience.	Communicate the findings in a suitable manner.

Assessment

Your achievement of the learning outcomes for this module will be tested as follows:

Type	CW	EX
Description	Analysis of a Business problem involving the use of mathematical methods and communication of the findings of a specified form.	Closed book examination with formula sheet.

%age Final Assessment	30 N	70 Y
Learning Outcomes	1,2,3,4,5,6,7,8	1,2,3,4,5,6,7,8

Prerequisite Module(s)

There are no prerequisites for this module.

Barred Combinations

No restrictions apply.

Indicative Reading

Bradley, T (2007) Essential Statistics for Economics, Business and Management, London: John Wiley & Sons.

Curnock, A (1996) Quantitative Methods in Business, Cheltenham: Stanley Thomes.

Francis, A. (2004) Business Mathematics and Statistics (6th ed.), London: Thomson Learning.

French, C S (1996) Data Processing and Information Technology, London: DP Publications.

Harper, WM (1991) Statistics (6th ed.), London: Pitman Publishing.

Lucey, T. (2003) Quantitative Techniques, 6th ed., London: Thomson.

Swift, L. (2001) Quantitative methods for business, management and finance, Basingstoke: Palgrave.

Taylor, S (2001) Business Statistics, Basingstoke: Palgrave.

Taylor, S (2007) Business statistics for non-mathematicians (2nd ed.), Basingstoke: Palgrave Macmillan.

Module Type:	STAN
Module Length:	1
Host Subject Group:	
Version Number::	0.2

Activity Log

User Name	Date Accessed	Action
mtl1	20/12/2006 15:52:33	added
Admin	05/10/2009 10:10:35	Ammended
Admin	09/10/2009 09:47:35	Ammended
Admin	09/10/2009 10:03:34	Revalidated
mtl1	21/01/2010 12:19:14	Ammended
mtl1	21/01/2010 12:51:03	Ammended
Admin	29/09/2010 15:07:51	Revalidated
Admin	17/12/2010 10:54:31	Ammended
Admin	17/12/2010 10:54:39	Revalidated
spy1	17/12/2010 11:09:59	Ammended
Admin	05/01/2011 16:19:54	Revalidated
Admin	13/01/2011 12:52:34	Ammended
Admin	13/01/2011 12:52:45	Revalidated
spy1	23/03/2011 11:04:31	Ammended
spy1	28/03/2011 13:37:38	Ammended
spy1	28/03/2011 14:02:09	Ammended

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