

Course unit title:	Quantitative Methods for Management								
Course unit code:	MAT 203								
Type of course unit (compulsory, optional):	Compulsory								
Level of course unit:	Bachelor (1st Cycle)								
Year of study:	2								
Semester when the course unit is delivered:	2								
Number of ECTS credits allocated:	6								
Name of lecturer(s):	Dr Neophytos Mikellides								
Learning outcomes of the course unit:	<ul style="list-style-type: none"> • Formulate a linear programming problem and solve it to find the optimised solution. • Analyse a time series, explain its behaviour in terms of other variables and develop a structural model of behaviour. • Identify trend, fluctuations about the trend of greater or less regularity, seasonal components, residual, irregular or random effect in a time series. • Use the moving average method and differencing for trend removal, recognise seasonality and use general tools to de-seasonalise it. • Use basic methods for forecasting. • Use decision making methods in optimising real case scenarios. 								
Mode of delivery:	Face-to-face								
Prerequisites and co-requisites:	Pre-requisite: MAT 201								
Recommended optional programme components:	None								
Course contents:	This course provides a further understanding of the statistical tools necessary for analysing and presenting data, elements of decision making and constructing mathematical models, which can be applied in a business environment. The course provides students with a firm basis of quantitative and analytical abilities which will be utilised in more complex decision making aspects in concurrent and subsequent modules.								
Recommended or required reading:	Required Reading: Curwin, J., and Slater, R. (2007). <i>Quantitative Methods for Business Decisions</i> . 6 th edition. Cengage Learning.								
Planned learning activities and teaching methods:	Lectures, homework.								
Assessment methods and criteria:	<table style="width: 100%; border: none;"> <tr> <td style="padding-right: 20px;">Class Participation:</td> <td style="text-align: right;">5%</td> </tr> <tr> <td>Assignment:</td> <td style="text-align: right;">10%</td> </tr> <tr> <td>Mid-Term Test:</td> <td style="text-align: right;">15%</td> </tr> <tr> <td>Final Examination:</td> <td style="text-align: right;">70%</td> </tr> </table>	Class Participation:	5%	Assignment:	10%	Mid-Term Test:	15%	Final Examination:	70%
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Assignment:	10%								
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Language of instruction:	English								
Work placements:	No								