

Course unit title:	Statistics I
Course unit code:	MAT 201
Type of course unit	Compulsory
(compulsory, optional):	Companiony
Level of course unit:	Bachelor (1st Cycle)
Year of study:	1
Semester when the course unit	2
is delivered:	
Number of ECTS credits	6
allocated:	
Name of lecturer(s):	Dr Neophytos Mikellides
Learning outcomes of the	Solve problems on set theory, laws of probabilities, and conditional
course unit:	probability.
	Identify the kind of distribution a specific random variable follows and
	explain the use of the probability distributions.
	Identify relationships between variables and draw the appropriate
	inference based on various correlation coefficients.
	Test hypotheses about various population parameters by identifying the
	type I and type II errors, the level of significance, the rejection region
	and the p-value.
	Use and develop statistical models, in particular, simple linear
	regression models. Also, fit a model to a set of data.
	Use the linear regression model for predicting the behaviour of a
	random variable.
	Use sample statistics to estimate a population parameter.
Mode of delivery:	Face-to-face
Prerequisites and co-	None
requisites:	
Recommended optional	None
programme components:	
Course contents:	The purpose of this course is to build the foundation of theoretical statistics
	from the first principles of probability theory. The primary objective of this
	course is to introduce students to variability and uncertainty and how to
	cope with them when drawing inference from observed data. Students will
	have a practical experience with a spreadsheet analysis package.
Recommended or required	Required reading:
reading:	Levine, D. (2009). Business statistics: A first course. 5 <sup>th</sup> edition. Pearson.
Planned learning activities and	Lectures, homework, laboratory exercises.
teaching methods:	
Assessment methods and	Class Participation: 5%
criteria:	Assignment: 10%
	Mid-Term Test: 15%
Language of instruction	Final Examination: 70%
Language of instruction:	English
Work placements:	No