

Course Title	Introduction to Statistics			
Course Code	STAT106			
Course Type	Theoretical			
Level	Diploma/Higher Diploma			
Year / Semester	1 st Year / 1 st Semester			
Teacher's Name	Kyriakou Sophia			
ECTS	4	Lectures / week	2	Laboratories / week
Course Purpose and Objectives	This course is an introductory course in statistics intended for students in a wide variety of areas of study. The primary goal of the course is to help students understand how the process of posing a question, collecting data relevant to that question, analysing data, and interpreting data can help them find answers to real problems.			
Learning Outcomes	<p>Upon completion, students are expected to:</p> <ul style="list-style-type: none"> ▪ Be able to use statistical methods for organising and describing sets of data ▪ Understand the fundamentals of data distribution ▪ Gain familiarity with the estimation of central and distribution parameters ▪ Prepare statistical graphs, charts and tables ▪ Explain the reasoning of data collection ▪ Be able to apply segmentation of variables and data management ▪ Be able to use and interpret simple linear regression models and use them for predictions 			
Prerequisites	None	Required		
Course Content	<p>The course covers the following topics:</p> <ul style="list-style-type: none"> ▪ Overview, types of data, uses and abuses of statistics ▪ Collecting Data ▪ Summarising data ▪ The concept of distribution ▪ Measures of central tendency ▪ Measures of Variation ▪ Parameters estimation ▪ Exploratory data analysis ▪ Graphic presentation ▪ Basic Probability ▪ The Normal Distribution ▪ Simple Linear Regression and predictions 			
Teaching Methodology	Teaching is made by means of lectures and class discussions. Students will hand-in home exercises which will be discussed in class.			
Bibliography	<ul style="list-style-type: none"> • Berenson, Mark L., Levine, David M. (2020), Basic Business Statistics: Concepts and Applications, Pearson, ISBN: 978-1-292-26503-2. 			

Assessment	<ul style="list-style-type: none">▪ Attendance and Participation 10%▪ Assignment 10%▪ Intermediate Written Examination 30%▪ Final Written Examination 50%
Language	English or Greek