STATISTICS I

Degrees in Economics and Management

1º Semester – Academic year 2017-2018

MODULE DESCRIPTOR

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Module Aims

The module Statistics I is designed to provide basic knowledge on Probability and will equip the students with the skills needed to successfully tackle many statistical problems in the fields of economics and management. Emphasis is placed on the notion of random variables as a way of describing phenomena influenced by chance as well as on the tools and techniques for interpreting the essential pattern implicit in them.

Syllabus Plan

- Probability;
- Random variable and two dimensional random variables: Distribution, joint distribution, marginal distribution, conditional distribution functions;
- Expectations and parameters for a random variable and two dimensional random variables;
- Discrete Distributions;
- Continuous Distributions;

Indicative Learning Resources

The main textbook for the module is:

Miller I. and Miller, M. (2013): John E. Freund's Mathematical Statistics with applications, 8th Edition, Pearson.

Alternative textbooks that you may wish to consult are:

Hogg, R.V. and Tanis, E.A. (2001): Probability and Statistical Inference, 6th Edition, Prentice - Hall,

Newbold, P.; Carlson, W. and Thorne, B. (2013): Statistics for Business and Economics, 8th Edition, Pearson.