**Mauro Costantini**

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| Programme of “STATISTICA” “Statistics” |
| 1st Cycle in ECONOMIA E AMMINISTRSAZIONE DELLE IMPRESE, 2rd year , 2nd semester |
| Number of ECTS credits: 9 |
| Lecturer: Mauro Costantini |
| 1 | Course objectives  | The course aims to endow students with basic knowledge of descriptive and inference statistics. Basic elements of Matlab software for statistics will be offered. |
| 2 | Course content and Learning outcomes (Dublin descriptors) | Contents of the module:1. Descriptive Statistics.
2. Dependence, Regression and Correlation
3. Elements of Probability
4. Inference, Sampling and Sampling Distributions
5. Statistical Inference: Estimation for Single Populations
6. Statistical Inference: Hypothesis Testing for Single Populations

 On successful completion of the module, the student should have:* knowledge of basic descriptive statistics;
* knowledge of linear regression analysis;
* knowledge of elements of probability, sampling and sampling distributions;
* knowledge of statistical inference about single populations.
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| 3 | Prerequisites and learning activities | The student must know of elements of mathematics.  |
| 4 | Teaching methodsand language | The mode of teaching is face-to-face in weekly classes. Language: Italian Ref. Text books Cicchitelli, G., D’Urso, P. and Minozzo, M. (2017). Statistica: Principi e Metodi, 3/Ed. Pearson. Prentice Hall.  |
| 5 | Assessment methods and criteria | Written exam |