Content

Course Code Course Name Semester Theory Practice Lab Credit ECTS

G114 Statistics 2 4 0 0 4 5

Prerequisites

Content

Admission Requirements

Language of Instruction French
Course Type Compulsory
Course Level Bachelor Degree

Objective The objective of this course is to familiarize students with basic concepts and tools of statistical methodology

1. Statistics as a tool of decision

2. Statistical series, function of distribution and measures of central tendency

3. Measures of dispersion

4. Probability

Bernard Grais, "Statistique descriptive", 3eme edition, Dunod, Paris.

Vincent Giard, "Statistiques Appliquées a la Gestion", Edition Economica, Paris.

References Paul Newbold, William L.Carlson, Betty Thorne, "Statistics for Business and Economics", 6th edition, Prentice Hall,

Upper Saddle River, New Jersey, 2007

Roger C. Pfaffenberger, James H. Patterson, "Statistical Methods for Business and Economics", Irwin

2003 Business Communication Today

Theory Topics

## Weekly Contents

1 Introduction to Statistics

- 2 Statistical series
- 3 Graphs to describe numerical variables
- 4 Measures of central tendency
- 5 Measures of variability
- 6 Probability and its postulates
- 7 Probability Rules
- 8 Midterm exam
- 9 Bayes theorem
- 10 Random variables, mathematical expectation, variance and standard deviation
- 11 Hypergeometric distribution, Binomial distribution
- 12 The poisson probability distribution, the normal distribution
- 13 Discrete random variables and probability distributions
- 14 Continuous random variables and probability distributions