

Course Code	Course Name	Semester	Theory	Practice	Lab	Credit	ECTS
G114	Statistics	2	4	0	0	4	5
Prerequisites							
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							
Content							
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

Week	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