

Applied Statistics to Management

ECTS : 3

Volume horaire : 27

Description du contenu de l'enseignement :

Course Overview

Introduction to statistical tools used to summarize and analyze a set of data, to the fundamental concepts of probability and the laws of probability. Presentation of statistical inference concepts: sampling, parameter estimation and hypothesis testing. Introduction to simple linear regression.

Course Chronology

A . Probabilities

I. Basic concepts

1. Random experience and events
2. Definition of a probability
3. Conditional probabilities
4. Bayes formula
5. Independence
6. Combinations and arrangements

II. Random variables

1. Discrete random variables
2. Continuous random variables
3. Approximations

III. Two-dimensional random variables

1. Independence
2. Covariance
3. Properties of expected value and variance

B. Statistical inference

1. Sampling theory
2. Statistical estimation
 - a) Point estimation
 - b) Confidence interval estimation
3. Hypothesis testing

Compétence à acquérir :

Gain various basic concepts and strategic tools used in the Science of Management. Develop, through a variety of applications based principally in the domain of management, the capacity to interpret and analyze quantitative data.

Mode de contrôle des connaissances :

- | | |
|--------------|-----|
| • Midterm | 50% |
| • Final Exam | 50% |

