# UCL
**Université catholique de Louvain**

## MQAHD1327
*2012-2013*

# Méthodes statistiques en gestion

| 7.0 credits | 45.0 h |
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| Teacher(s) : | Tossut Rosane ; |
| Language : | Français |
| Place of the course | Mons |
| Prerequisites : | MQAHD1325 ' Management Mathematics |
| Main themes : | A . Probabilities<br>I. Basic concepts<br>1. Random experience and events<br>2. Notion of probabilities<br>3. Conditional probabilities<br>4. Bayes formula<br>5. Independence<br>6. Count formulas<br>II. Random variables<br>1. Discrete random variables<br>2. Continuous random variables<br>3. Approximations<br>4. Linea transformation of a random variable<br>III. Multi-dimensional random variables<br>1. Two-dimensional random variables<br>2. Independence<br>3. Covariance<br>4. Properties of expectation and variance<br>5. Properties of independent random variables<br>B. Statistical inference<br>1. Sampling theory<br>2. Statistical estimation<br>a) Precise estimate<br>b) Confidence intervals<br>3. Hypothesis testing<br>3.1. Test of comparison to a standard<br>3.2. Distribution parameter comparison tests (average and variance) |
| Aims : | At the end of the course students will be able to understand the basic concepts and methods of statistical analysis in management.<br>*The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".* |
| Evaluation methods : | Written examination |
| Teaching methods : | --<br>Lectures<br>--<br>Assignments: |
| Bibliography : | --<br>WONNACOTT R., WONNACOTT R. (1995), Statistique, Economica, translation from WONNACOTT R., WONNACOTT R. (1990) Introductory Statistics for Business and Economics, 4th ed., John Wiley & mp; Sons.<br>--<br>GIARD V. (1995), Statistique appliquée à la gestion, Economica. |
| Cycle and year of study : | > Preparatory year for Master in Management FisCom (shift schedule)<br>> Preparatory year for Master in Management (shift schedule) |
| Faculty or entity in charge: | BLSM |