



APPLIES TO ACADEMIC YEAR 2012/2013

## **FORK 1002 Preparatory Course in Elementary Statistics**

### **Programme**

Master of Science in International Management, Master of Science in Leadership and Organizational Psychology, Master of Science in Political Economy, Preparatory Course - Master

### **Responsible for the course**

Genaro Sucarrat

### **Department**

Department of Economics

### **Term**

According to study plan

### **ECTS Credits**

0

### **Language of instruction**

English

### **Introduction**

This course focuses on statistical concepts and tools of relevance in business and managerial economics in particular, and in the social sciences more generally.

### **Learning outcome**

To provide students with the understanding of the fundamentals of basic statistical principles; the skills necessary for interpretation and evaluation of data; sufficient knowledge for the adequate application of basic statistical procedures.

### **Prerequisites**

The emphasis is on concepts and applications rather than on computational ability. However, it will be required of students to add, subtract, multiply, and divide in this course!

### **Compulsory reading**

#### **Books:**

Groebner, David F. ... [et al.]. 2011. Business statistics : a decision-making approach. 8th ed. Pearson. Selected chapters

#### **Other:**

Selected readings and hand-outs during the course

### **Recommended reading**

#### **Course outline**

##### **Key Statistical Concepts (1 hour)**

- Population
- Sample

##### **Basic Statistics (3 hours)**

- Descriptive statistics
- Point estimation
- Hypothesis testing and interval estimation for one and two samples.

##### **Regression Analysis (8 hours)**

- Bivariate correlation analysis
- The linear regression model
- Estimation
- Hypothesis testing

##### **Qualitative independent variables (3 hours)**

- Qualitative independent variables and dummy variables
- Dummy variables and regression

**Computer-based tools**

Practical examples and assignments will involve extensive use of statistical software, such as SAS JMP or SPSS.

**Learning process and workload**

15 hours with another 5 hours for the use of statistical software

**Examination**

Not applicable

**Examination code(s)**

Not applicable

**Examination support materials**

Not applicable

**Re-sit examination**

Not applicable

**Additional information**

Academic honesty and trust are important to all of us as individuals, and represent values that are encouraged and promoted by the honour code system. This is a most significant university tradition. Students are responsible for familiarizing themselves with the ideals of the honour code system, to which the faculty are also deeply committed.

Any violation of the honour code will be dealt with in accordance with BI's procedures for cheating. These issues are a serious matter to everyone associated with the programs at BI and are at the heart of the honour code and academy integrity. If you have any questions about your responsibilities under the honour code, please ask.