



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Statistica Economica

1920-2-E1401A014

Learning objectives

The study of economic phenomena requires the application of appropriate mathematical syntheses to carry out the monitoring and comparison of macroeconomic aggregates.

During the course will be introduced techniques and basic tools of descriptive statistics, useful to represent the economic system, with a particular focus on the comparison of the typical quantities of National Accounting. Ample space will also be dedicated to data sources with particular reference to the official index numbers published by ISTAT.

The course aims to guide the student in the choice and use of these tools by enlarging his knowledge in mathematics / statistics.

Contents

- The basic statistics
- The measure of inequality
- Simple and complex price indexes
- The measure of inflation
- The comparison of monetary aggregates over time

Detailed program

- Descriptive statistics: data types, frequency distributions, graphical representations, measures of central tendency and variability.
- Inequality: the statistical concentration, the Gini's Index, market concentration, Herfindal index
- Statistical ratios: simple index numbers and their properties, complex index numbers and their properties.
- The consumer prices index : definition, setup and usage.
- The measure of inflation: analysis and decomposition.
- The comparison of monetary aggregates over time: methods of deflation for goods flows and non-commodity flows.

Prerequisites

microeconomics basics

Teaching methods

Frontal lessons.

Furthermore, exercises drawn from real problems will be discussed and solved in the classroom.

Assessment methods

The exam is written.

The exam consists of five multiple choice questions, one open question and two exercises. The questions are aimed at measuring the student's ability to provide the definitions and fundamental concepts of the discipline. They are, also, aimed to measure the student's ability to make connections between various aspects illustrated in the classroom. Numerical exercises have the function of verifying understanding and reasoning skills on economic problems.

Textbooks and Reading Materials

Fulvia Mecatti, Statistica di base (2010) McGraw-Hill

Predetti A. (2006) I numeri indici. Teoria e pratica dei confronti dei confronti spaziali e temporali.

Linee guide Istat sulla costruzione dei numeri indice dei prezzi al consumo

