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Master in	Business Professional Consulting
Academic year	2013-2014
I or II semester	I
Number of ECTS credits	6
Scientific Sector Code	SECS-S/03

Course unit title **Economic Statistics (a.a. 2013/2014)**

(Prof. **Summo Domenico)**

University of Bari Aldo Moro

Master in Business Professional Consulting

Pre-requisites

We require a basic knowledge of Descriptive and Inferential Statistics.

Objectives

The course is the statistical study of economic phenomena that take place between economic operators in general. Particular attention is given to the measurement of inflation and methods of quantitative analysis of growth processes. The course also aims at consumption analysis, inequality in income distribution and the degree of spread of poverty.

Course content

Structure and functioning of an economic system

Economic operators. Constitution of resources. The gross domestic product. The distribution and redistribution of gross national income. The use of the available gross national income. International transactions and Balance of Payments.

Statistical Methods for the analysis of economic fluctuations

Prices and purchasing power of money: the measurement of inflation. The construction of index numbers of prices. Implicit price indices and remuneration rates of production factors. The comparison of the economic aggregates over time and space. The time series analysis: deterministic and stochastic models .

Input-output analysis

The sectoral input-output model . The use of the input-output model in the analysis of the production structure . The cost prices mode

The estimation of material capital and production capacity

Definitions and measurement of physical capital stock. Estimation of production capacity and its employment degree.

Production functions and productivity measurement

Some production functions. The Solow model approach to the measurement of technology growth. Productivity indices. Malmquist indices of total factor productivity .

Indicators of economic aggregates .

The growth multiplier. The debt-GDP ratio.

Statistical analysis of consumption

Concepts and definitions. Evaluation methods. Empirical analyses and standard parameters. The consumption functions.

Models and measures of income inequality

Concepts and definitions. Sampling techniques. Dispersion and asymmetry of the income distribution. Analytical description of the income distribution. Positive and regulatory measures of inequality. Definition and measurement of poverty.

Compulsory reading – study material

R. Guarini F. Tassinari, *Statistica Economica: problemi e metodi di analisi* il Mulino, Bologna, 2000.

G. Alvaro, *Contabilità Nazionale e Statistica Economica*, Cacucci , Bari, 1999.

Recommended reading - study material

D. Summo, *Temi di Ricerca: Produttività ed Efficienza*, Cacucci, Bari, 2010.

Slides from lectures.

Teaching methods

- Direct contact: No
- Lectures: Yes
- Tutorials: Yes
- Personal work: No
- Case studies – in group: No

Assessment methods

- Assignment: No
- Written without oral presentation: Yes
- Oral presentation: Yes

This course is in e-learning Web Site area: No