

# Official Statistics and Index Numbers Methodology

## **Instructor: A. LIVADA**

Elective Course, 4<sup>th</sup> semester, 5 ECTS units

Course level: Graduate (MSc)

Language: Greek

## **Course description**

Purpose of this course is the students to understand the methodology and principles of the official national and international statistics as well as to understand theory and applications on the index numbers.

Students will be introduced to some of the basic principles of the European Statistical System through the statistical laws and rules which apply in the EU and they will familiarize themselves with data management issues (transmission, release, metadata) and the harmonization of European Statistics.

Also, students will also be trained in the creation and use of simple and composite (unweighted & weighted) index numbers. Students will understand criteria for selecting index number formula, selecting and changing the base period, selecting the proper goods and services, chaining and indices as well as sampling and heterogeneity errors. Applied index numbers in Greece and Europe will be studied, such as CPI with reference to HES.

## **Target Learning Outcomes**

Upon completion, students will have the knowledge and familiarity with methodology, principles and use of the national and international official statistics. They will also have the technical skills to estimate and evaluate index numbers which are necessary for the every day life using the correct data set and statistical package.

## **Recommended Bibliography**

- Holt D. (2008), “Official Statistics, public policy and public trust”, JRSS A,171,2,323-346.
- OECD (2008) “Handbook on Constructing Composite Indicators – Methodology and the User guide”
- Τζωρτζόπουλος Π., Α Λειβαδά (2010) “Αριθμοδείκτες: Θεωρία και Εφαρμογές”, Οικονομικό Πανεπιστήμιο Αθηνών, Αθήνα
- [http://europa.eu/pol/index\\_en.ht](http://europa.eu/pol/index_en.ht)

## **Teaching and Learning Activities**

Face to face teaching covering theory and lab-courses.

## **Assessment and Grading Methods**

Written exam and projects.