**Programme for 3 ECTS**

Poverty and Living Conditions Indicators

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| **Topics** | **Materials (file names)** |
| 1 Introduction to the course | O. Monica-Slides-JMC-SAMPLEU-Rev |
| 2 The role of statistics in decision making process | I.1. Role of Statistics I.2. The design of policy intervention |
| 3 The Data for National Accounts: from GDP to Well-being, Quality of Life and Poverty | II.1. National Accounts-Income-Consumption  II-2-From-GDP-to-Well-being-Quality-of-Life-Poverty-def |
| 4. The definition of poverty and of the goals of its measurement | 1. Monica-Slides-JMC-SAMPLEU  Poverty\_Inequality\_Handbook\_Ch01 (The Handbook on Poverty and Inequality, by Jonathan Haughton and Shahidur R. Khandker)  http://web.worldbank.org/WBSITE/ |
| 5. Measuring poverty, welfare indicators, issues on survey design | 2. Monica-Slides-JMC-SAMPLEU  Poverty\_Inequality\_Handbook\_Ch02 |
| 6. Laeken Indicators | 5-Laeken Indicators-JMC-SAMPLEU  Laeken,Indicators,-,calculation,algorithm  Concentrazione (with formulas)  Gini (without technicalities)  Lemmi Pisa 26 Novembre 2015 |

**Programme for 9 ECTS**

European Local Indicators of Poverty and Living Conditions: traditional and new survey techniques in the era of data deluge and Big Data

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| **Topics** | **Materials (file names)** |
| 1 Introduction to the course | O. Monica-Slides-JMC-SAMPLEU-Rev |
| 2 The role of statistics in decision making process | I.1. Role of Statistics I.2. The design of policy intervention |
| 3 The Data for National Accounts: from GDP to Well-being, Quality of Life and Poverty | II.1. National Accounts-Income-Consumption  II-2-From-GDP-to-Well-being-Quality-of-Life-Poverty-def |
| 4. The definition of poverty and of the goals of its measurement | 1. Monica-Slides-JMC-SAMPLEU  Poverty\_Inequality\_Handbook\_Ch01 |
| 5. Measuring poverty, welfare indicators, issues on survey design | 2. Monica-Slides-JMC-SAMPLEU  Poverty\_Inequality\_Handbook\_Ch02 |
| 6. Laeken Indicators | 5-Laeken Indicators-JMC-SAMPLEU  Laeken,Indicators,-,calculation,algorithm  Concentrazione (with formulas)  Gini (without technicalities)  Lemmi Pisa 26 Novembre 2015 |
| 7. Survey Methods 1: (survey process, survey errors) | 3-Survey Methodology-I-JMC-SAMPLEU  Chapter 1 Handbook by Andrea Giommi |
| 8. Survey Methods II (sampling process, sampling design, sampling formulas) | 4-Survey Methodology-II-JMC-SAMPLEU  Handbook by Andrea Giommi (in italian downloadable from <http://local.disia.unifi.it/giommi/disp-indagini-campionarie/>  Chapter 3 Valliant R.,Dever J.A, Kreuter F. (2014) Practical tools for designing and weighting survey samples, Springer NY |
| 8.1 Simple random sampling and Horvitz and Thompson estimator. | Chapter 2 Handbook by Andrea Giommi |
| 8.2 Stratified Simple Random Sampling (allocation of the sample) | Chapter 4 Handbook by Andrea Giommi |
| 8.2 Cluster Sampling | Chapter 8 Handbook by Andrea Giommi (sections 8.1, 8.2) |
| 9. Total Survey Error Approach | Lectures by Natalie Shlomo, Pisa\_2015 |
| 10. Poverty Indicators and Big data sources | Small Area Model-Based Estimators Using Big Data Sources, JOS 2015  Science-2015-Blumenstock-1073-6 |