



## **Ph.D. in Entrepreneurship and Innovation**

**Quantitative methodologies (advanced)**

**Research synthesis and Lab of Bibliometrics**

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| <b>Title</b>            | Quantitative methodologies (advanced) Research synthesis and Lab of Bibliometrics   |
| <b>Credits</b>          | 3   |
| <b>Level</b>            | PhD Course  |
| <b>Scientific-Field</b> | SECS-P/07 - SECS-P/08 - SECS-P/09 - SECS-P/10 - SECS-P/11   |
| <b>Semester</b>         | I semester  |
| <b>Year</b>             | 2   |
| <b>Professor</b>        | <b>Prof. C. Cuccurullo - Dip. Economia, Università della Campania L. Vanvitelli</b><br><b>Prof. M. Aria - DISES, Università degli Studi di Napoli Federico II</b> |
| <b>Venue</b>            | Università degli Studi di Napoli <i>Parthenope</i><br><i>Università della Campania L. Vanvitelli</i>  |

## SYLLABUS

### Course topics

Academic publications are dramatically growing at fast pace and it is increasingly unfeasible to keep track on all that is being published. Moreover, the emphasis on empirical contributions has resulted in a voluminous and fragmented research streams, and contested field. Nowadays, stand-alone literature reviews are extensively used in various fields for synthesizing findings from previous research, for using effectively the existing base of knowledge and enlarging its boundaries, for providing evidence-based guidelines to practice.

Scholars use various qualitative and quantitative approaches to make sense of earlier findings. Among them, bibliometric analysis is a powerful approach to perform systematic, transparent and reproducible review, especially with big volumes of data (big data).

This course has two main goals. The first is introducing all the different types of research synthesis. The second is presenting bibliometric analysis for systematic literature reviews. The PhD candidates will perform a bibliometric analysis on their main topic.

### Aims

This course will enhance PhD candidates' skills for bibliometric analysis in the following stages:

- data-collection: the choice of bibliographic databases; their professional use; the building of a dataset; the cleaning of data

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- data-analysis: the use of R package “bibliometrix”; the descriptive analysis (impact, productivity, trends, bibliometric laws); the analysis of conceptual, intellectual and social structures of knowledge (network analysis; data reduction analysis; thematic evolution).
  - data-visualization, with maps, matrices, and networks.
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### **Teaching materials**

Teachers will provide (1) a collection of scientific paper, available on [www.bibliometrix.com](http://www.bibliometrix.com), (2) their own materials, (3) the R-package “bibliometrix”.

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### **In itinere evaluation**

The appraisal will concern the PhD candidate report of bibliometric analysis.

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### **Final evaluation**

Final appraisal will be the discussion and defence of their stand alone literature review

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### **Teaching methods**

Traditional classes (30%) and laboratory (70%).

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### **Language**

Italian and English

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