

A. Y. 2021 - 2022

Dottorato di Ricerca in

“ECONOMIA E MANAGEMENT DELL’INNOVAZIONE E DELLA SOSTENIBILITA’ (EMIS)”

**AD HOC LEARNING ACTIVITIES**

**Corso “Metodologia della Ricerca” (14 CFU)**

Prof. Beatrice Luceri (University of Parma)

Prof. Emidia Vagnoni (University of Ferrara)

With interventions by Prof. Vergura, UniPr; Dr. Cavicchi, UniFe; Dr. Oppi, UniBg; Prof. Sven Olof-Collin, UniLinnaeus;

**Contents:**

"The reality of research";
"Some advice for the success of new researchers".
Introduction to research design: defining the topic and research questions
Research Planning and choice of the research technique. “How to write a research proposal”
Qualitative research methods: data collection, data analysis
Qualitative case studies
Action Research
Quantitative research methods: (experiment, quantitative observation, etc.)
Quantitative research methods: How to design a questionnaire for data gathering. Survey design
Quantitative research methods: Structural Equation Modelling
Mixed methods research

**Overall:** 30 hours + 6 hours interpreting research methodologies

**Supporting materials:** provided by the lecturers

**Assessment:** based on the presentation of an effectively structured research proposal

**Module “Games theory” (3 CFU)**

**Dr.ssa Chiara Lodi (University of Urbino)**

**Overall:** 8 hours

**Supporting material:** It will be agreed with the PhD students during the module

**Assessment:** case analysis to be presented at due date defined by the lecturer.

Lectures will be on campus, Department of Economics and Management, via Voltapaletto 11 – Ferrara, in Room EC7. If it is impossible to attend, please relate to the PhD coordinator for arranging a different attendance.

**Module: Statistic methods (15 CFU)**

**Prof. Andrea Cerioli, University of Parma, (12 hours); Prof. Marco Riani, University of Parma, (12 hours); Prof. Fabrizio Laurini, University of Parma, (12 hours)**

**Overall:** 36 hours

**Contents:**

- *Part 1 (Prof. Andrea Cerioli): Statistical methods for the analysis of big data*
- *Part 2 (Prof. Marco Riani): Programming in Matlab for big data*
- *Part 3 (Prof. Fabrizio Laurini): Statistical models for the analysis of panel data*

**Supporting material:** It will be agreed with the PhD students during the module

**Assessment:** case discussion

**Module “Using Big databases for economic analysis purpose. An application to the patents data” (4 CFU)**

**Dr. Ugo Rizzo, University of Ferrara  
Dr. Nicolò Barbieri, University of Ferrara  
Dr. Marianna Gilli, University of Ferrara**

**Overall:** 12 hours

**Supporting material:** It will be agreed with the PhD students during the module

**Assessment:** case analysis and interaction

**Module “Data Search” (4 CFU)**

**Dr.ssa Zerbini (University of Parma)  
Dr.ssa Costa (University of Parma)**

**Contents:**

- Why it is important to publish
- The different types of publishing products
- Scientific paper: characteristics, structure
- Bibliography: citation styles
- Reference management software: focus on Zotero

- How to publish: the choice of the Journal, the publication procedure
- How to do a bibliographic search
- Databases: catalogue of the Parma library system, catalogue of electronic periodicals sfx, bibliographic databases (ebSCO host, emerald, essper)
- The keywords
- Other sources: researchgate, academia.edu, scienceopen, iris, sole24ore.
  - Open science
  - Open access and FAIR data
  - Scholarly communication
  - Predatory publisher

**Overall: 8 hours**

### **Seminars**

Thematic seminars will be organised and PhD students will get timely notice about.