



Visiting Professor Program Academic Year 2023/2024

TEACHING COMMITMENT: 54 hours

COURSE TITLE

Econometrics

TEACHING PERIOD

1st term

SCIENTIFIC AREA

Applied Econometrics of Innovation

LANGUAGE USED TO TEACH

English

COURSE SUMMARY

The course is composed of three modules. The first part of the course will focus on cross-sectional data following a non-experimental approach. It will provide a deep insight on the linear regression model and ordinary least squares as well as the basics of non-linear models for limited dependent variables. The second module will introduce panel data estimations. The third part of the course will be in the lab focused on implementing econometric analysis of Research Questions in the area of economics of innovation. Students will be assessed on the basis of an individual home project and written/oral exam.

LEARNING OBJECTIVES

The aim of the first two modules of the course is to provide students with the fundamentals of Econometrics. All the theoretical aspects of the econometric modelling will be treated jointly with interesting and modern empirical applications focused on economics of innovation and science to

motivate students and give them necessary knowledge to interpret multiple regression outputs, to try to respond to real-world and policy relevant questions with rigorous numerical answers, to plan and realize a simple empirical research project potentially useful to set up their final Master dissertation. The third module in the lab aims to develop competences in programming R to develop a proper econometric analysis of a specific research question in the area of economics of innovation and science with particular attention to the robustness of the results.

TUTORSHIP ACTIVITIES

N/A

LAB ACTIVITIES

Students will do an applied econometrics of innovation Lab activity in which they will be given one large dataset to use to answer one or more Research Questions. They will be followed by the professor in the lab to perform a full scale data analysis. The lab will be timed to allow students to do part of the work at home. Students will be divided in groups to carry out the assignment.

OTHER ACTIVITIES BESIDES THE COURSE

The invited professor will give two seminars on applied economics of innovation open to the whole faculty.

VISITING PROFESSOR PROFILE

The Visiting professor should have proven experience in the field of applied economics of innovation and science and in particular on the use of econometric techniques. She/he should have a track record in teaching econometrics/statistics/data analysis and economics of innovation. She/he should have an excellent research profile in the applied economics of innovation / S&T policy with several publications in top international journal of the field.

CONTACT REFERENT

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