esade

TEACHING GUIDE - 2025-2026

Data Analysis in Business and Economics

UGRA_016609

Departments	Department of Economics, Finance & Accounting
Teaching Languages	English
ECTS	5
Teacher responsible	Ioana Schiopu - ioana.schiopu@esade.edu

Course Goals

This course introduces students to the theory and practice of econometrics, with a focus on empirical analysis in economics and related fields such as business and public policy.

Previous knowledge

Statistics

Teaching methodology

Lecturing is combined with various student activities (discussions, presentations, practical exercises).

Description

Short description

Students will learn how to apply statistical methods to real-world economic data, test economic theories, and evaluate policy effectiveness. Topics include regression analysis, causal inference, and common problems in econometric modeling such as endogeneity and omitted variable bias. The course emphasizes both the conceptual foundations and the practical skills needed to carry out empirical research using statistical software.

Content

#	Topic
1	Linear Regression
2	Inference and Hypothesis Testing
3	Dummy Variables and Interaction Terms
4	Panel Data Methods
5	Endogeneity and Omitted Variable Bias
6	Instrumental Variables (IV)

#	Topic
7	Advanced Topics in Data Analysis

Assessment

Tool	Assessment tool	Category	Weight %
Group project		Ordinary round	50.00%
Individual or team exercises	Assignments	Ordinary round	50.00%

PROGRAMS

BITLASI22-Bachelor in Transformational Leadership and Social Impact (Undergraduates: Business)
BITLASI22 Year 4 (Optative)

G114-Global Governance Exchange Program (Undergraduates: Law)
G114 Year 1 (Optative)