





The BIP study load is 3 ECTS credits and combines both face-to-face teaching (1.5 ECTS credits) and online activities (1.5 ECTS credits).

## Contents

The contents of this course are structured in 5 modules that include exploratory, descriptive and inference techniques:

- Chapter 1: Introduction to statistical data analysis and first steps with R software
- Chapter 2: Exploratory analysis of inclusion and diversity data using graphical and analytical methods
- Chapter 3: Categorical data analytics for inclusion and diversity
- Chapter 4: Inference techniques applied to inclusion and diversity data
- Chapter 5: Modelling the relationship between inclusion and diversity characteristics

## Number of students, profile, selection process, and registration

This BIP is open to students from Bielefeld University (Germany), Örebro University (Sweden), and “Ștefan Cel Mare” University of Suceava (Romania), as well as students enrolled at a university that is either part of the European Universities alliance, NEOLAIa, or an ERASMUS+ partner university with which the University of Jaén has an Erasmus agreement.

The BIP approach is eminently practical with the support of statistical software tools, so we hope that it will be enjoyable and useful for everyone. The only academic prerequisites are elementary knowledge of mathematics and basic computer skills.

Therefore, the BIP is open to students from any academic level (Bachelor, Master, PhD), with a critical mind, a passion for understanding the role of statistics in today's world, and an eagerness to learn about statistical data processing.

Furthermore, since the language of instruction is English, students are expected to have sufficient language proficiency to keep up with the course.

The estimated number of students taking part in the BIP is 15-20 international students plus 3-5 students from the University of Jaén. Each partner HEIs can nominate up to 10 students. First, each participating university will select its international students locally and rank them based on their grades or ECTS points. Then, the final selection of students will be determined by the University of Jaén, taking into account the rankings provided by all participating universities and available spots.

## Activities

The BIP will take the form of project work, in transnational teams, based on the statistical analysis of inclusion and diversity data.

The programme framework consists of:

- Online activities (June 8-12, 2026), including:
  - 3 hours of webinars (key theoretical concepts and interactive discussions)
  - Asynchronous activities (video lectures, reading scientific texts, online forum)
  - Student work (proposed activities, self-assessment tests)
  - Guest lectures
- Face-to-face teaching (June 15-19, 2026), at the University of Jaén, including:
  - Lecture time
  - Cultural and social activities.

The asynchronous activities (video lectures, reading scientific texts, etc.) will be open to the wider community (students, staff, and faculty).

## Calendar/program

Please refer to the following website for the course schedule.

[https://giepropias.ujaen.es/index.php?r=site%2Fficha-curso&id\\_estudio=1748](https://giepropias.ujaen.es/index.php?r=site%2Fficha-curso&id_estudio=1748)

1. C. Heumann, M. Schomaker, Shalabh (2023). Introduction to Statistics and Data Analysis: With Exercises, Solutions and Applications in R. 2<sup>nd</sup> ed., Springer Nature.
2. P. Dalgaard (2008). Introductory Statistics with R. Springer, New York.
3. J.F. Wiley, L.A. Pace (2015). Beginning R: An Introduction to Statistical Programming. 2<sup>nd</sup> ed., Apress, USA.
4. R. Schumacher, S. Tomek (2013). Understanding Statistics Using R. Springer.
5. P. Newbold, W.L. Carlson, B. Thorne (2022). Statistics for Business and Economics. 10<sup>th</sup> ed., Pearson Education.
6. S. Ross (2010). Introductory Statistics. 3rd ed, Academic Press/Elsevier.