

**COURSE DATA****DATA SUBJECT**

Code: 46450
Name: Statistics and Research Methodology
Cycle: Master's Degree
ECTS Credits: 8
Academic year: 2025-26

STUDY (S)

Degree	Center	Acad. year	Period
2248 - International Joint Research Master Work and Organizational Psychology	Facultat de Psicologia i Logopèdia	1	First quarter

SUBJECT-MATTER

Degree	Subject-matter	Character
2248 - International Joint Research Master Work and Organizational Psychology	Statistics and research methodology	COMPULSORY

COORDINATION**SUMMARY**

This course is taught at Maastricht University during the first semester at the first academic year.

Prof. Anika Nubold and prof. Bram Fleuren are the coordinator lecturers.

Students will learn the basic methodological and statistical skills to conduct empirical research.

Students will learn how to plan and evaluate a research study, including choosing a research question and corresponding methodological design and creating questionnaires/measurement instruments and the corresponding documentation. They also learn how to get started with statistical analysis software (SPSS, Mplus), once data has been collected (data entry, recoding, computing scales, reliabilities, descriptive statistics, restructuring data for multilevel analyses). This course will also cover basic as well as more advanced statistical analyses, such as T-tests, ANOVA, ANCOVA, and RM-ANOVA, regression analysis, multilevel analysis, as well as coding of qualitative data.

PREVIOUS KNOWLEDGE**RELATIONSHIP TO OTHER SUBJECTS OF THE SAME DEGREE**



There are no specified enrollment restrictions with other subjects of the curriculum.

OTHER REQUIREMENTS

No previous requirements.

COMPETENCES / LEARNING OUTCOMES

2248 - International Joint Research Master Work and Organizational Psychology

Be able to communicate effectively in English, both orally (group discussions, presentations) and in writing, on topics related to work and organisational psychology.

Be able to communicate scientific theories and empirical results in an understandable manner, to both professionals (experts and non-experts) and lay audiences (including clients).

Be able to make a critical assessment of a research question and an experimental design, taking into account the ethical responsibilities in research.

Be able to read, understand, integrate and critically reflect on scientific communications, professional reports and new developments.

Be able to work in an international team.

DESCRIPTION OF CONTENTS

1. Key words

Methodology,
 Statistics,
 Experimental design,
 Survey research

WORKLOAD

PRESENCIAL ACTIVITIES

Activity	Hours
Theoretical and practical classes	80,00
Total hours	80,00

NON PRESENCIAL ACTIVITIES

Activity	Hours
Attendance at other activities	0,00



Individual or group project	0,00
Independent study and work	120,00
Preparation of lessons	0,00
Preparation for assessment activities	0,00
Resolution of case studies	0,00
Total hours	120,00

TEACHING METHODOLOGY

Assignment(s),

Lecture(s),

Problem-Based Learning

EVALUATION

Assignment,

Written exam

REFERENCES