



COURSE DATA

Data Subject

Code	46450
Name	Statistics and research methodology
Cycle	Master's degree
ECTS Credits	8.0
Academic year	2024 - 2025

Study (s)

Degree	Center	Acad. year	Period
2248 - International Joint Research Master Work and Organizational Psychology	Faculty of Psychology and Speech Therapy	1	First term

Subject-matter

Degree	Subject-matter	Character
2248 - International Joint Research Master Work and Organizational Psychology	6 - Statistics and research methodology	Obligatory

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

N o p r e v i o u s r e q u i r e m e n t s .

Students are able to:

- understand and critically analyse the methodological design of experimental and survey research in Work and Organizational Psychology;
- design questionnaires / measurement scales with documentation;
- create documentation;
- prepare data for statistical analysis;
- apply basic and more advanced statistical techniques
- apply basic and more advanced statistical techniques

DESCRIPTION OF CONTENTS

1. Key words

Methodology,
Statistics,
Experimental design,
Survey research



WORKLOAD

ACTIVITY	Hours	% To be attended
Theoretical and practical classes	80,00	100
Study and independent work	120,00	0
TOTAL	200,00	

TEACHING METHODOLOGY

Assignment(s),

Lecture(s),

Problem-Based Learning

EVALUATION

Assignment,

Written exam