

Instruments of Experimental Psychology (H002370)

Due to Covid 19, the education and evaluation methods may vary from the information displayed in the schedules and course details. Any changes will be communicated on Ufora.

Course size (nominal values; actual values may depend on programme)
Credits 6.0 Study time 180 h Contact hrs 45.0 h

Course offerings and teaching methods in academic year 2020-2021

A (year)	English	Gent	teaching methods	hours
			online seminar: practical PC room classes	0.0 h
			online lecture	0.0 h
			seminar: practical PC room classes	30.0 h
			lecture	15.0 h

Lecturers in academic year 2020-2021

Verguts, Tom	PP02	lecturer-in-charge
Smalle, Eleonore	PP02	co-lecturer

Offered in the following programmes in 2020-2021

programme	crdts	offering
Bachelor of Science in Psychology (main subject Theoretical and Experimental Psychology)	6	A
Exchange Programme in Psychology	6	A
Linking Course Master of Science in Psychology (main subject Theoretical and Experimental Psychology)	6	A
Preparatory Course Master of Science in Psychology (main subject Theoretical and Experimental Psychology)	6	A

Teaching languages

English

Keywords

Experimental psychology, programming, experiments

Position of the course

This is a course from the Bachelor program Theoretical and Experimental Psychology. The students learn to code computer programs for conducting experiments.

Contents

This course covers the following topics:

- A series of expositions and exercises on the basis of Python/PsychoPy. Both methods allow developing a computer-guided experiment. First, we go through the basis of computer-guided experiments. Those will be translated in specific assignments that can be performed using the provided software. A large amount of self-study is expected of the students.
- In this course students will learn how to use computers to read data, how visual and audio stimuli can be shown, how reactions can be registered and how complex randomization schemes generated and implemented.

Initial competences

Psychologische functieleer I, Psychologische functieleer II, Methodologie, Statistiek II

Final competences

- 1 To choose from a multitude of research approaches and techniques.
- 2 To design and to evaluate research.
- 3 To operationalise or to carry out a research plan.
- 4 Learn how to think in a structured way while designing a research plan.
- 5 Learn to program in Python / PsychoPy.

Conditions for credit contract

Access to this course unit via a credit contract is determined after successful competences assessment

Conditions for exam contract

This course unit cannot be taken via an exam contract

Teaching methods

Lecture, seminar: practical PC room classes, online lecture, online seminar: practical PC room classes

Learning materials and price

Slides, examples and exercises available on Ufora

References

Course content-related study coaching

Interactive support via Ufora (FAQ, e-mail ...)
By appointment

Evaluation methods

continuous assessment

Examination methods in case of periodic evaluation during the first examination period

Examination methods in case of periodic evaluation during the second examination period

Examination methods in case of permanent evaluation

Skills test

Possibilities of retake in case of permanent evaluation

examination during the second examination period is not possible

Extra information on the examination methods

The student receives an experimental design and a description of a paradigm. Students are asked to translate this experimental design into a working experiment by using the provided software.

Calculation of the examination mark

The final score is a weighted average of 5 interim evaluations throughout the year. Each of the first 4 evaluations count for 1/8 of the final score, while the final test counts for 1/2 of the final score.