

PSYB17-112 Cognitive Psychology 2.

Aim of the course

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To review the most important experimental methods and paradigms of cognitive psychology in the topics of perception, attention, cognitive control, learning, memory, language, thinking and problem solving. The presented experimental paradigms and the tasks are also useful help for successfully completing the comprehensive exam.

Learning outcome, competences

knowledge:

- acknowledging the general structure and reason of designing experiments
- introduction to basic experimental paradigms
- understanding the importance of making experiments

attitude:

- realization of the importance of experimental methods

skills:

- understanding the methodological part of scientific papers
- acquisition of the skill of understanding the visually represented results
- acquisition of a critical and analytical attitude

Content of the course

Topics of the course

1. Introduction & how to write a research report
2. Vision: faces and complex patterns
3. Auditory attention: localization
4. Learning: creating habits
1st Homework deadline (Introduction)
5. Working memory
6. Declarative memory
2nd Homework deadline (Method)
7. Midterm
8. Categorization
9. Decision making
3rd Homework deadline (Results)
10. Intentionality
11. Cognitive control
4th Homework deadline (Abstract)
13. Final exam/ Midterm re-take
Deadline of re-take homework
14. Final exam re-take/Closure

Learning activities, learning methods

Evaluation of outcomes

Learning requirements, mode of evaluation, criteria of evaluation:

requirements

- Written exams (midterm+final)

2 x 25 = 50 points

- Presentations (10-15 min)

10 points

presentation about the theoretical background of the actual class, paired work

- Homework

4 x 5 = 20 points

short (approx. half page) written summaries of different parts of experiments (theoretical background, description of methods, results, abstract)

Two from each part, only the better one will count in the end of the semester

Deadline: see the detailed syllabus

- Final paper

20 points

full lab report: short (1-2 pages) written summary of one individually chosen experiment: introduction, stimuli, methods, results, discussion, references

Deadline:

Regular attendance, max. 3 misses (except the first practice)

Reading list

Compulsory reading list

- Sekuler, R., & Blake, R. (2006). *Perception*. New York, NY: McGraw-Hill.
- Baddeley, A., Eysenck, M. W., & Anderson, M. C. (2009). *Memory*. Hove, UK: Psychology Press.
- Eysenck, M. W., & Keane, M. T. (2005). *Cognitive Psychology. A Student's Handbook*. 4th Edition. Hove; New York: Psychology Press.

Recommended reading list

- Atkinson & Hilgard's *Introduction to psychology. 15th edition*. (2015). Cengage Learning.
- Baddeley, A. D. (1997). *Human memory: Theory and practice*. Psychology Press.