



Syllabus

INTRODUCTION TO COGNITIVE NEUROSCIENCE - 6128

Last update 08-02-2017

HU Credits: 3

Responsible Department: cognitive science

Academic year: 0

Semester: 2nd Semester

Teaching Languages: Hebrew

Campus: Mt. Scopus

Course/Module Coordinator: Dr. Ayelet Landau

Coordinator Email: ayelet.landau@huji.ac.il

Coordinator Office Hours: by appointment

Teaching Staff:
Dr. Ayelet Landau

Course/Module description:

This is a course in Cognitive Neuroscience that examines the relationship between

brain and cognition through the use of methods from various research fields such as psychology, neurobiology, and neuroscience. The course presents the key methods in the field and discusses their contribution to understanding the neural basis of cognition. It includes an overview of the latest theories and findings in various topics associated with cognition, including perception, attention, memory, language, and executive functions.

Objectives: To present up-to-date findings in key topics within cognitive neuroscience; to understand the main research methods in the field (e.g., behavioral methods, research on individuals with brain damage, imaging techniques); to discuss the contribution of brain research to cognitive theories, and vice versa.

Course/Module aims:

The course will provide an extensive survey of the methods used in the field. Then we will apply this knowledge to the study of various modules in cognition: e.g., perception, memory, executive functions and awareness.

Learning outcomes - On successful completion of this module, students should be able to:

Students in the class will be able to read a scientific paper in the field with a good understanding of the dependent variables. In addition they will have acquired the state of the art insights on how neural mechanisms support cognition

Attendance requirements(%):

100

Teaching arrangement and method of instruction: The class is based on a series of lecture, assignment submission as well as reading requirements and quizzes. In addition students will be participating in 3 hours of experiments as part of the assignments (1 hour if psychology majors).

Course/Module Content:

Introduction
Methods
Perception
face perception
action and cognition
language and music cognition
attention and awareness

Required Reading:

The reading assigned will be provided on the course website

Additional Reading Material:

will appear on the course moodle

Course/Module evaluation:

End of year written/oral examination 0 %

Presentation 0 %

Participation in Tutorials 0 %

Project work 0 %

Assignments 20 %

Reports 20 %

Research project 0 %

Quizzes 60 %

Other 0 %

Additional information:

Updated information about this class will be uploaded before the term starts.