

The Hebrew University of Jerusalem

Syllabus

Perception - 51502

Last update 15-02-2017

HU Credits: 2

Degree/Cycle: 1st degree (Bachelor)

Responsible Department: psychology

Academic year: 0

Semester: 2nd Semester

Teaching Languages: Hebrew

Campus: Mt. Scopus

Course/Module Coordinator: Prof Merav Ahissar

Coordinator Email: msmerava@gmail.com

Coordinator Office Hours: By appointment

Teaching Staff:

Prof Merav Ahissar

Course/Module description:

Classical and recent topics in the field of perception

Course/Module aims:

Understanding perception: the relation between the physical stimuli, their representation in the brain, and our perception of those stimuli in vision, audition, object perception and more

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

Course participants will become familiar with important concepts in the field of perception and with the mechanisms underlying perception. Participants will also be acquainted with perception examples from different fields, including in populations with a reading or language difficulty.

Attendance requirements(%):

90%

Teaching arrangement and method of instruction: Lectures in class, homework assignments and a final exam

Course/Module Content:

- Introduction: what is perception?*
- Human eye and vision*
- Brain and vision*
- Visual tracts and spatial perception*
- Perception and identification of objects*
- Concept cells*
- Color and depth perception*
- Movement perception*
- The ear and the hearing system*
- Auditory perception*
- Speech and music perception, what happens when there are difficulties?*
- Language and reading difficulty – do they stem from a perception difficulty?*

Required Reading:

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- Resnik, J., Sobel, N., & Paz, R. (2011). Auditory aversive learning increases discrimination thresholds, *Nat Neurosci*, 14(6), 791-796
 - Quiroga, Q. R., Fried, I., & Koch, C. (2013). Brain Cells for Grandmother, *Scientific American*, 308, 30 – 35
 - View from the top: hierarchies and reverse hierarchies in the visual system. Hochstein S, Ahissar M. *Neuron*. 2002 36(5):791-804
 - יתכן שיתווספו 1-3 מאמרים לרשימת הקריאה במהלך הסמסטר

Additional Reading Material:

Course/Module evaluation:

End of year written/oral examination 70 %
Presentation 0 %
Participation in Tutorials 0 %
Project work 0 %
Assignments 30 %
Reports 0 %
Research project 0 %
Quizzes 0 %
Other 0 %

Additional information: