

The Hebrew University of Jerusalem

Syllabus

NEUROPSYCHOLOGY - 51404

Last update 31-10-2016

HU Credits: 2

Degree/Cycle: 1st degree (Bachelor)

Responsible Department: psychology

Academic year: 0

Semester: 1st Semester

Teaching Languages: Hebrew

Campus: Mt. Scopus

Course/Module Coordinator: Dr. Hillel Aviezer

Coordinator Email: nogadi@gmail.com

Coordinator Office Hours: Thursday 18:00-19:00 by appointment only

Teaching Staff:

Dr. Hillel Aviezer

Course/Module description:

This is an introductory level course to the foundations of human neuropsychology. The course covers a broad variety of classic neuropsychological disorders and their neurological etiologies.

Course/Module aims:

The aims of the course are: 1) to analyze and describe the classic neuropsychological disorders while attempting to critically identify the relation between the psychological syndrome and the neurological substrate. 2) To evaluate and critically compare the methodologies currently available in neuropsychological research while describing the strengths and limitations of each approach. 3) to establish a global outlook on the behavioral characteristics and psychological consequences of brain damage while attempting to identify overarching similarities across diverse syndromes.

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

At the end of this course students will be able to identify neuropsychological syndromes and point to the putative links between the physical damage and the psychological clinical manifestation. Students will also identify the strengths and weaknesses of the various methods in the current neuropsychological toolbox. Finally, students will be able to successfully present new research questions in the field of neuropsychology and critically appraise prior research in this domain.

Attendance requirements(%):

100

Teaching arrangement and method of instruction: The course is based on frontal lectures while relying extensively on presentations and movies demonstrating various neuropsychological syndromes. In addition, home assignments will be given during the class.

Course/Module Content:

- 1.Introduction to neuropsychology: History and basic assumptions*
- 2.Localization in the brain: Principles of functional neuroanatomy*
- 3.Cerebral Asymmetry: Insights from neuropsychological patients*

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4. *Cerebral Asymmetry: Insights from the intact brain*
 5. *Visual perception and Agnosia*
 6. *Face Perception and Prosopagnosia*
 7. *Language and Aphasia*
 8. *Memory and Amnesia*
 9. *Attention and neglect disorders*
 10. *The neuropsychology of Emotion*
 11. *Frontal lobe syndromes*
 12. *Consciousness and disorders of awareness*
 13. *Neuropsychological assessment*
 14. *Plasticity and neuro-rehabilitation + overall integration*

Required Reading:

Foundations of Human Neuropsychology. Kolb and Wishaw, 2009, Sixth Ed. Worth press.

changes in the reading list will be updated in class in the start of the year, as necessary.

Introduction to neuropsychology: History and basic assumptions
Reading: Chapter 1

Localization in the brain: Principles of functional neuroanatomy
Reading: Chapters 3 and 6

Cerebral Asymmetry: Insights from neuropsychological patients
Reading: chapter 11

Cerebral Asymmetry: Insights from the intact brain
Reading: chapter 12

Visual perception and Agnosia
Reading: Chapter 13

Face Perception and Prosopagnosia

Language and Aphasia
Reading: Chapter 19

Memory and Amnesia
Reading: Chapter 18

Attention and neglect disorders
Reading: Chapter 14, 21

The neuropsychology of Emotion
Reading: Chapter 20

Frontal lobe syndromes
Reading: Chapter 16

Consciousness and disorders of awareness
Reading: Chapter 22

Neuropsychological assessment
Reading: Chapter 28

Plasticity and neuro-rehabilitation + overall integration
Reading: Chapter 25

Additional Reading Material:
None

Course/Module evaluation:

End of year written/oral examination 85 %

Presentation 0 %

Participation in Tutorials 0 %

Project work 0 %

Assignments 15 %

Reports 0 %

Research project 0 %

Quizzes 0 %

Other 0 %

Additional information:

The course book and the PPT presentations are in English. The lectures are given in Hebrew while extensively using English terminology.