

Academic year 2023-24 (תשפ"ד)

**Course title (English): Introduction for cognitive neuroscience**

**Course title (Hebrew): מבוא למדעי העצב הקוגניטיביים**

**Course number: 0-133-1-0024**

**Course slot (semester/s, weekday/s, hours): B, wednesday, 10-12**

**Lecturer: Dr Dorit Ben Shalom**

**Lecturer's conference hour and contact details: wednesday 12, by appointment**

**Course description & objectives:** Basic brain anatomy and physiology, some basic principles of cognitive psychology, and the different imaging methods that are used to study brain structure and function: Properties of Neurons, Neuronal Signaling, The Cortex, The Subcortex, Methods in Neurophysiology, Methods in Cognitive Psychology, Methods in Neurology, Neuroimaging1, Neuroimaging2.

**Course requirements:**

Attendance: % 0 required  
 Mid-term: % 25  
 Final exam: % 75

Unless you have learned (and passed) or will learn this material in another course, there are two obligatory pass/fail statistics quizzes.

You need to pass both of them and the final exam in order to pass the course

**Topics & bibliography**

Gazzaniga, M. S. , Ivry, R. B. & Mangun, G. R (2018).  
 Cognitive Neuroscience. 5th Edition. W. W. Norton.

Read before class	Topic	Date	Week
pp. 25-29	Properties of Neurons		1
pp. 31, 34-35	Neuronal Signaling		2
pp. 43, 52-54	The Cortex		3
pp. 46-51	The Subcortex		4
all of the above	Midterm Exam A		5

pp. 90-91, 97, 101	Methods in Neurophysiology		6
pp. 97, 77	Methods in Cognitive Psychology		7
all of the above	Mldterm Exam B		8
pp. 80-82	Methods in Neurology		9
pp. 94, 101, 103	Neuroimaging1		10
pp. 72, 105, 122	Neuroimaging2		11