

# Intro to Memory & Cognition

## Syllabus

### Course books:

1. Cognition – The Thinking Animal by Daniel T. Willingham (TTA).
2. Human Memory and Cognition by Mark H. Ashcraft (HM&C).

### General course outline (by lessons) with suggested reading:

1. History of Cog. Psy: Introspectionism, Behaviourism, Gestalt, Computer simulations (HM&C. ch. 1\*\*; TTA. ch. 1\*\*)
2. Methods in cognitive psychology (TTA. ch. 2\*\*)
3. Perception and attention (HM&C. ch. 3\*\*; TTA. ch. 4\*)
4. Memory-I: Primary and working memory (TTA. ch. 5 143-171\*)
5. Memory-II: Episodic- LTM, encoding/retrieval (TTA, ch.6 172-191\* ;HM&C. ch. 5\*\*).
6. Memory-III: Forgetting and memory suppression (TTA. 7 218-232\*)
7. Memory-IV: memory organisation, categorization (TTA. Ch8 233-270\* ; HM&C. ch. 6\*\*)
8. Language, disambiguation, lateralization(TTA, ch.14 441-470\*; HM&C, ch. 9\*\*; Article-1\*\*)
9. Problem solving, insight, creativity, intuition (TTA.ch.12 372-399\* ;HM&C.ch.12\*\*;, Article-2\*)
10. Logical thinking (Deduction/Induction) (TTA. ch. 11 335-371\*)
11. Fluid-intelligence (g), cognitive control and the frontal lobes (Article-3\*\*)
12. Decision-making (TTA. ch. 11\* ; HM&C. ch. 11\*\*;)
13. To be decided
14. Cognitive psychology in everyday life.

\* Mandatory reading

\*\* Optional reading

### Course demands:

At the end of the semester there will be an exam covering the all the materials presented in class and the corresponding chapters from the mandatory course book 'The Thinking Animal (TTA).

Reading the additional chapters from the second book ' Human Memory and Cognition' is not obligatory but recommended for those who want to get a broader view of the subject, as well as the following articles.

Additional course materials and messages will be posted throughout the semester and can be viewed in the course site at: [www.virtual.tau.ac.il](http://www.virtual.tau.ac.il)

### Articles:

1. Bilateral brain processes for comprehending natural language. TICS (2005)
2. New approaches to demystifying insight. TICS (2005)
3. [Intelligence and the frontal lobes: Cog. Psychol. \(1996\)](#)

### Reception hour:

10/2010

Wednesday 14:00-15:00 room 133 Sharet building