

Name: The neural Basis for Cognition: From Neural Network to High Cognitive Functions

Course Number: 197-2-0012

Structure: Three hours weekly lecture, one hour weekly T.A. session, three points

The course is for graduate students who have a basic background in structure and function of the nervous system and continues the course Neural basis 1: from gene to neural networks:. The main goal of the course is to deepen and update students' knowledge and understanding on the neural basis of high brain functions. This part of the course (second semester) will focus on the neural basis for sensory-motor functions, vision, endocrinology and stress response, and cellular models for learning and memory.

Bibliography:

1. Principles of Neural Science, 5th Edition, Eric Kandel, James Schwartz, Thomas Jessell, Steven Siegelbaum, A. J. Hudspeth (McGraw Hill).