

Course: Integrative Neuroscience (5 ECTS/5 op)

Organizers:

Prof. Teija Kujala, M.A. Soila Kuuluvainen & The National Doctoral Program of Psychology

Course Description:

This course provides opportunities for post graduate students and undergraduate students in psychology and other related disciplines to learn the methodological basis for the major tools used for investigating neural processes and their applications in neuroscience. The course will consist of a series of lectures to be given by experts in the field and of literature (to be announced later). As prerequisite, the students should have taken introductory undergraduate courses in neuroscience. All the lectures will be given at the University of Helsinki, Department of Psychology (Room K69; on Dec 2 Lecture Hall 1). The course will be also available to all interested eligible graduate and post graduate students of psychology in Finland via Psykonet (more information from the local teacher). In the University of Helsinki, the maximum of 40 students will be included (unlimited for the rest of the country). In the University of Helsinki the registration is through WebOodi; in other Universities, the local teacher provides more information on registration. Additionally, 5-10 post graduate students from the Aalto University can be included. Those Aalto University students who are interested, please send an email to Soila Kuuluvainen (soila.kuuluvainen@helsinki.fi) in September 1-11 (not earlier). In your email you should tell your name, student number, and major subject.

Lecturers:

Prof. Risto Ilmoniemi, M.A. Soila Kuuluvainen, M.Sci. Miika Leminen, Dr. Doc. Jyrki Mäkelä, Prof. Alvaro Pascual-Leone, Prof. Josef Rauschecker, Prof. Riitta Salmelin, Dr. Doc. Juha Silvanto

Course Schedule:

Wed 14.9. at 14-16 Introduction (M.Psych. Soila Kuuluvainen)
Fri 16.9. at 12-14 Single cell registrations (Prof. Josef Rauschecker)
Wed 21.9. at 14-16 EEG (M.Sci. Miika Leminen)
Wed 28.9. at 14-16 EEG (M.Sci. Miika Leminen)
Wed 5.10. at 14-16 EEG&MEG (M.Sci. Miika Leminen)
Fri 7.10. at 10-12 and 12-14 two MEG lectures (Prof. Riitta Salmelin and Dr. Doc. Jyrki Mäkelä)
Wed 12.10. at 14-16 TMS (Prof. Risto Ilmoniemi)
Fri 14.10. at 12-14 TMS (Dr. Doc. Juha Silvanto)
Wed 2.11. at 14-16 TMS (Dr. Doc. Juha Silvanto)
Fri 4.11. at 12-14 TMS (Dr. Doc. Juha Silvanto)
Fri 2.12. at 14-16 TMS (Prof. Alvaro Pascual-Leone)

Responsible teachers:

Helsinki: Soila Kuuluvainen (soila.kuuluvainen@helsinki.fi), Teija Kujala (teija.m.kujala@helsinki.fi)
Turku: Timo Ruusuvirta (timo.ruusuvirta@utu.fi)
Jyväskylä: Markku Penttonen (markku.penttonen@psyka.jyu.fi)