Syllabus

Psychophysiological Detection of Concealed Info. - 51858

Last update 31-08-2014

HU Credits: 2

Degree/Cycle: 2nd degree (Master)

Responsible Department: Psychology

Academic year: 1

Semester: 1st Semester

Teaching Languages: Hebrew

Campus: Mt. Scopus

Course/Module Coordinator: Gershon Ben-Shakhar

Coordinator Email: mskpugb@mscc.huji.ac.il

Coordinator Office Hours: Sunday 10-11

Teaching Staff:
Prof Gershon Ben-Shakhar
Course/Module description:
We will review various psychophysiological methods for detecting information, using both autonomic nervous system (ANS), EEG and fMRI measures. We will make a critical comparison between paradigms designed to detect deception ("polygraph) and those designed to detect concealed knowledge (memory detection). Finally we will review both basic research designed to shed light on the processes underlying the methods and applied research designed to maximize detection efficiency.

Course/Module aims:
Our aim is to provide the students with the basic knowledge and understanding of the theories and the potential application (and limitations) of methods of psychophysiological detection of deception and concealed knowledge.

Learning outcomes - On successful completion of this module, students should be able to:
read critically both theoretical and empirical studies in this area and to understand the applied aspects of attempts to detect deception and concealed knowledge.

Attendance requirements(%):

Teaching arrangement and method of instruction: Frontal lectures and demonstrations.

Course/Module Content:
1. Introduction and general background.
2. The physiological measures.
3. The paradigms (detecting deception vs. detection of memory traces).
5. The limitations.
6. Effects of memory
7. Detection of information shared by groups.
8. Review of fMRI studies of deception and its detection.

Required Reading:
Volume 3, Article 342.

Additional Reading Material:
Concealed Information Test. Psychophysiology, 49, 381-390.

Course/Module evaluation:
End of year written/oral examination 0 %
Presentation 0 %
Participation in Tutorials 0 %
Project work 100 %
Assignments 0 %
Reports 0 %
Research project 0 %
Quizzes 0 %
Other 0 %

Additional information: