



The Hebrew University of Jerusalem

Syllabus

Psychophysiological Detection of Concealed Info. - 51858

Last update 01-08-2023

HU Credits: 2

Degree/Cycle: 2nd degree (Master)

Responsible Department: Psychology

Academic year: 0

Semester: 1st Semester

Teaching Languages: Hebrew

Campus: Mt. Scopus

Course/Module Coordinator: Gershon Ben-Shakhar, Yoni Pertzov

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

Coordinator Office Hours: Thursday 11-12

Teaching Staff:

Prof Gershon Ben-Shakhar,
Prof Yoni Pertzov

Course/Module description:

A critical review of methods and measures for the detection of deception and concealed memories

Course/Module aims:

Knowledge and understanding of the methods via critical thinking

Learning outcomes - On successful completion of this module, students should be able to:

Understanding of the methods and their limitations

Attendance requirements(%):

At least 80%

Teaching arrangement and method of instruction: Frontal with power point presentations

Course/Module Content:

- 1) An Introduction to Psychophysiological and behavioral detection of deception (PDD); the basic methods
- 2) A general review of the measures used in the CIT
- 3) ERP and fMRI measures in the CIT
- 4) Meta-Analysis of physiological measures
- 5) Meta-Analysis of response-time measures
- 6) Theoretical approaches
- 7) External Validity of CIT research
- 8) Limitations of the CIT: Countermeasures and information leakage
- 9) Eye-tracking measures in the CIT
- 10) Conceptual and Methodological Considerations
- 11) Clinical applications of the CIT
- 12) Searching CIT and CIT Algorithms

Required Reading:

Verschuere et al. (2011). Memory Detection: Theory and Application of the Concealed Information Test. Cambridge University Press.

Additional Reading Material:

55. Klein Selle, N., Verschuere, B., Kindt, M., Meijer, E. & Ben-Shakhar, G. (2017). Unraveling the roles of orienting and inhibition in the Concealed Information Test. Psychophysiology, 54. 628-639.

*The promise of eye-tracking in the detection of concealed memories
OC Lancry-Dayana, G Ben-Shakhar, Y Pertzov
Trends in Cognitive Sciences*

Grading Scheme:

*Essay / Project / Final Assignment / Home Exam / Referat 90 %
Attendance / Participation in Field Excursion 10 %*

Additional information:

Active participation (10%) and final paper (90%)

Presentation will be uploaded to the course site.