

The Hebrew University of Jerusalem

Syllabus

Experimental Psychology - 51301

Last update 10-10-2018

HU Credits: 4

Degree/Cycle: 1st degree (Bachelor)

Responsible Department: Psychology

Academic year: 0

Semester: 2nd Semester

Teaching Languages: Hebrew

Campus: Mt. Scopus

Course/Module Coordinator: Dr. Eyal Kalanthroff

Coordinator Email: Eyal.Kalanthroff@mail.huji.ac.il

Coordinator Office Hours: Needs to be scheduled

Teaching Staff:

Dr. Eyal Kalanthroff
Mr.
Mr. Vishkin Allon
Ms. Shahaf Leshem

Course/Module description:

In this course are learn about ways in which scientific thinking modes allow a better understanding of the world, and hence - critical thinking. Among other things we will discuss research design, problems and failures in research, critical thinking processes, reasoning biases and more.

Course/Module aims:

The purpose of the course is to introduce students to the principles of critical scientific thinking, as well as concepts and basic tools for conducting research.

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

At the end of the course students will be able to write an original research proposal.

In addition they will be able the read scientific papers from a critical perspective, and understand of the threats and failures that characterize various research designs.

Attendance requirements(%):

Presence mandatory only in -27.6.18

Teaching arrangement and method of instruction: 2 weekly meetings:

1.5 hr lecture for the full class

45 minutes practice meetings in small groups.

Course/Module Content:

- What makes a good theory; History of psychology as a science; experimental approach.*
- From theory to a research question to an and experiment*
- Theory and experiment, experimental and correlational research designs, statistical correlation and causality.*
- experiment: a method to control, experimental vs. quasi-experimental designs.*
- Within and between subjects designs, reliability.*

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- *Test- validity: predictive validity, content validity, internal validity*
 - *Integration of information from multiple sources, clinical vs. statistical prediction*
 - *Validity of the research results: internal validity, statistical validity, construct validity, ecological validity.*
 - *reasoning biases: Regression to the mean and perception of randomness*
 - *reasoning biases: persistence of beliefs*
 - *reasoning biases: introspection failures*

Required Reading:

*Beyth-Marom, R (ED). (2001). Research methods for the social sciences, 2nd ed., Tel- aviv: Open University press.
units 1,2,3,6,7.*

Additional Reading Material:

*Beyth-Marom, R (ED). (2001). Research methods for the social sciences, 2nd ed., Tel- aviv: Open University press.
units 4,5,8.*

Course/Module evaluation:

*End of year written/oral examination 65 %
Presentation 0 %
Participation in Tutorials 0 %
Project work 0 %
Assignments 0 %
Reports 0 %
Research project 30 %
Quizzes 0 %
Other 5 %
Poster presentation*

Additional information:

*Course website:
<http://moodle.huji.ac.il/hu12/>*

Research proposal needs to be approved (at early stages of the course)