



The Hebrew University of Jerusalem

Syllabus

ADVANCED STATISTICS - 99827

Last update 18-09-2022

HU Credits: 3.5

Degree/Cycle: 2nd degree (Master)

Responsible Department: Occupational Therapy

Academic year: 0

Semester: 1st Semester

Teaching Languages: Hebrew

Campus: Mt. Scopus

Course/Module Coordinator: Ms. Haya Fogel-Grinvald

Coordinator Email: fhaya@hotmail.com

Coordinator Office Hours:

Teaching Staff:

Course/Module description:

In this course students will learn the principles of inferential statistics and relevant tests for conducting a quantitative research study in occupational therapy.

Course/Module aims:

- 1.Introduce basic concepts of the theory of statistics*
- 2.Provide knowledge of inferential statistics*
- 3.Provide knowledge of applying statistic tests*
- 4.The ability to conduct data analysis*
- 5.The ability to read and understand the results chapter in an article*

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

- 1.Describe statistic terms*
- 2.Identify suitable statistic tests for investigating a hypothesis*
- 3.Conduct a suitable test and understand its results*

Attendance requirements(%):

100%

Teaching arrangement and method of instruction: Lectures, practical tasks, home tasks

Course/Module Content:

- 1.Factor analysis and Reliability*
- 2.Explore the data distribution*
- 3.Analysis of variance (ANOVA, MANOVA, MANCOVA) and the concept of interaction*
- 4.Mixed and Repeated measures ANOVA*
- 6.Linear Regression (Multiple, Stepwise, Hierarchical) with and without an interaction*
- 7.Non-parametric tests*

Required Reading:

Readings will be provided to students throughout the course

Additional Reading Material:

Hays, W. L.(1994): Statistics. Harcourt Brace College Publishers. Fort Worth, Texas.

Course/Module evaluation:

End of year written/oral examination 80 %

Presentation 0 %

Participation in Tutorials 0 %

Project work 0 %

Assignments 10 %

Reports 0 %

Research project 0 %

Quizzes 10 %

Other 0 %

Additional information:

Details of tasks, due dates and bibliography will be provided in the course website for students in the course