

The Hebrew University of Jerusalem

Syllabus

DATA PROCESSING AND DATA ANALYSIS - 3804

Last update 06-10-2021

<u>HU Credits:</u> 3

Degree/Cycle: 2nd degree (Master)

Responsible Department: Social Work

<u>Academic year:</u> 0

Semester: 2nd Semester

<u>Teaching Languages:</u> Hebrew

<u>Campus:</u> Mt. Scopus

Course/Module Coordinator: Dr. Osnat Zamir

Coordinator Email: menachem.birnbaum@mail.huji.ac.il

<u>Coordinator Office Hours:</u> Will be published on the course website

Teaching Staff:

Dr. Zamir Osnat, Dr. Snapiri Tchia, Dr. Anat Talmon, Ms. Noa Shalgi, Mr. Ariel Shahaf, Ms. shira rothkoff-kaduri

Course/Module description:

The course, based on frontal lessons and practice lessons, included selected topics in statistics, to assist in the professional work of social workers. The course includes theoretical statistical references, but in its overwhelming majority will focus on practical aspects of common statistical methods in the study of social work. During the course we will practice the topics covered by the production outputs of different analysis methods using SPSS software. Also, we will learn to analyze existing outputs and we will be exposed to the use of these methods critically in empirical articles.

Course/Module aims:

Provide students with tools for data analysis, their reports, and critical reading of research materials.

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

Upon successful completion of the course, students should be able to: 1. Identify specific appropriate methods of analysis fit for different research problems and different data

2. Analyze quantitative data in the level taught both for research and for field programs evaluation

3. Report the results of a study properly and in an accepted manner

4. Critically evaluate published research materials

<u>Attendance requirements(%):</u> 100%

Teaching arrangement and method of instruction: Lecture and practice lessons. The lecture will be held every week and practice sessions will be held every two weeks (double lesson, i.e. two academic hours)

<u>Course/Module Content:</u> List of topics (tentative) in the course: 1. Descriptive statistics (early material that students should already know, a basic rehearsal)

- 2. Statistical inference, population and sample
- 3. Hypothesis testing
- 4. Compare means t test (one sample, independent samples, and paired samples)
- 5. One-factor analysis of variance
- 6. Two-factor analysis of variance
- 7. Chi-square test
- 8. Correlation (Pearson and Spearman, including the issue of outliers)

<u>Required Reading:</u> None

<u>Additional Reading Material:</u> None

Course/Module evaluation:

End of year written/oral examination 90 % Presentation 0 % Participation in Tutorials 0 % Project work 0 % Assignments 10 % Reports 0 % Research project 0 % Quizzes 0 % Other 0 %

Additional information:

Information on this website and all its components is tentative and can be changed by the lecturer. Updated information about the course will appear on the course website