



The Hebrew University of Jerusalem

Syllabus

Introduction to statistics in criminology - 61797

Last update 13-09-2022

HU Credits: 6

Degree/Cycle: 1st degree (Bachelor)

Responsible Department: Criminology

Academic year: 0

Semester: Yearly

Teaching Languages: Hebrew

Campus: Mt. Scopus

Course/Module Coordinator: Prof. Roni Factor

Coordinator Email: rfactor@mail.huji.ac.il

Coordinator Office Hours: Please coordinate appointments

Teaching Staff:

Prof Ron Factor,
Ms. Danielle Yaffe,
Ms. OrTal Shyla Baron

Course/Module description:

An introduction to statistics course for criminology students

Course/Module aims:

The purpose of this course is to familiarize students with basic concepts in statistics. The students will learn methods and statistical tests that will enable them to assess studies carried out by others as well as to carry out basic independent research.

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

Evaluate studies that use basic statistical methods; Make a thoughtful use of statistical measures, calculate them and interpret their meaning; Process data using the SPSS and Excel software and interpret their outputs.

Attendance requirements(%):

100% - Students are required to attend all lectures and lab sessions

Teaching arrangement and method of instruction: Lectures and lab sessions

Course/Module Content:

- 1. SPSS Programming*
- 2. Levels of measurement*
- 3. Representing and displaying data*
- 4. Measures of central tendency*
- 5. Measures of dispersion*
- 6. Probability*
- 7. The logic of statistical inference*
- 8. Steps in statistical test*
- 9. The normal distribution*
- 10. Z-test*
- 11. Single sample t-test*
- 12. Two sample t-test*
- 13. Confidence intervals*
- 14. Analysis of variance*
- 15. Power analysis*

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16. Measures of association
 17. Pearson coefficient
 18. Linear regression

Required Reading:

וייסבורד, דייויד ופקטור, רוני (2019). סטטיסטיקה יישומית למדעי החברה ולמשפטים. צפרירים: נבו. הוצאה לאור בע"מ.

Weisburd D. & Britt C. (2014). *Statistics in Criminal Justice*. New York: Springer

Additional Reading Material:

Agresti, A., & Finlay, B. (2009). *Statistical Methods for the Social Sciences*. New Jersey, NY: Prentice Hall.

Field, A. (2013). *Discovering Statistics Using IBM SPSS Statistics*. London, UK: SAGE Publications.

Fox J. (2008). *Applied Regression Analysis and Generalized Linear Models*. Los Angeles: Sage.

Kleinbaum, D., & Lawrence, I. (1988). *Applied Regression Analysis and Other Multivariable Methods*. Boston, MA: PWS-KENT Publishing Company.

Welkowitz, J. (2012). *Introductory Statistics for the Behavioral Sciences*. Wiley: Hoboken, N.J.

Course/Module evaluation:

End of year written/oral examination 85 %

Presentation 0 %

Participation in Tutorials 0 %

Project work 0 %

Assignments 15 %

Reports 0 %

Research project 0 %

Quizzes 0 %

Other 0 %

Additional information: