# The Hebrew University of Jerusalem

## Syllabus

## Statistics and Quantitative Methods - 59827

Last update 18-10-2022

*HU Credits:* 2

*Degree/Cycle:* 2nd degree (Master)

*Responsible Department:* Public Policy

*Academic year:* 0

*Semester:* 1st Semester

*Teaching Languages:* Hebrew

*Campus:* Mt. Scopus

*Course/Module Coordinator:* Dmitry Epstein

*Coordinator Email:* dima.e@mail.huji.ac.il

*Coordinator Office Hours:*

*Teaching Staff:*

_Dr. Dimitry Epstein_

_Course/Module description:_
   The course introduces basic concepts in statistics, and focuses on understanding and preforming statistical methods.

_Course/Module aims:_
   To introduce basic concepts of descriptive statistics and statistical inference, and to develop the ability to evaluate results of statistical analysis.

_Learning outcomes - On successful completion of this module, students should be able to:_
   1. To explain the purpose and use of statistical analysis.
2. To understand statistical outcomes.
3. To evaluate results from statistical analysis.

_Attendance requirements(%):_

_Teaching arrangement and method of instruction: Lectures and independent practice._

_Course/Module Content:_
   1. Descriptive statistics.
2. Introduction to probability theory.
3. Statistical inference
4. Statistical hypothesis testing.
5. Estimating and
6. t- tests.
7. One way and two way ANOVA.
8. Linear regression.
9. Multiple regression and regression with dummy variables.

_Required Reading:_
 None

 _Additional Reading Material:_
   Pollak, M. (2012). Thinking differently, the friendly introduction to statistics.

*Magnes, Jerusalem.*

*Course/Module evaluation:*
*End of year written/oral examination 0 %*
*Presentation 0 %*
*Participation in Tutorials 15 %*
*Project work 0 %*
*Assignments 30 %*
*Reports 25 %*
*Research project 0 %*
*Quizzes 30 %*
*Other 0 %*

*Additional information:*