

- Name of Course:** Quantitative Research Methods and Statistics A (M.Ed.)  
מחקר כמותי וסטטיסטיקה A (תואר שני)
- Name of Teacher:** Dr. Marsha Bensoussan and Dr. Itay Hess
- Number of Hours:** Two hours weekly for one semester
- Type of Course:** Interactive lectures (first year, compulsory)
- Course Description:** The goals of the course are to teach basic knowledge of statistical methods needed to understand, plan, and interpret research work in the Social Sciences and Education.
- Course Objectives:**
1. Students will understand the principles and issues underlying research.
  2. Students will acquire basic concepts in statistics.
  3. Students will learn the skills for critical reading of research articles and analysis on the basis of empirical data.
  4. Students will learn to use the Excel program for basic statistical analysis
  5. Students will learn to read and interpret SPSS readouts.
- Course Outline:**
1. Introduction: The scientific approach
  2. Variables, values, research questions, hypotheses
  3. Definitions: nominal and operational
  4. Descriptive Statistics
  5. Working with the Excel program
  6. Inferential Statistics, interpreting SPSS readouts.

7. Normal Distribution.
8. Correlations between variables
9. Reliability of research tools.
10. Validity of research tools
11. Types of correlations between variables:
12. Trial -Design Experimental Research
13. Correlative study

**Methods of Teaching:** Frontal lectures with examples from research in Education, classroom exercises, working with Excel software, analyzing SPSS readouts, homework.

**Course Requirements:**

1. Active class participation
2. Submission of three exercises
3. Examination

**Assessment:**

10%	Participation
30%	Exercises
60 %	Examination

**References (\* = required reading):**

- Agresti, A., & Finlay, B. (2009). *Statistical methods for the social sciences* (4th ed.). Upper Saddle River, NJ: Pearson/Prentice Hall.
- \* Babbie, E., R., & Rubin, A. (2010). *Research methods for social work* (7th ed.). Belmont, C.A.: Thomson/Brooks/Cole, pp. 4-27, 66-72, 80-87.
- בייט-מרום, ר' (2001). שיטות מחקר במדעי החברה (מהדורה שנייה). תל-אביב: האוניברסיטה הפתוחה, יחידה 5.6.