Course program and reading list

Semester 1 Year 2023

School:  Baruch Ivcher School of Psychology

Probability

Lecturer:

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Teaching Assistant:

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Course No.:  8054  Course Type : Lecture  Weekly Hours : 2  Credit: 1

Course Requirements : Final Exam  Group Code : 231805411  Language: English

Course Description

The course covers basic concepts in probability theory, such as conditional probability, combinatorial analysis and random variables.

<table>
<thead>
<tr>
<th>Week</th>
<th>Subjects</th>
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<tbody>
<tr>
<td>1-2</td>
<td>Basic concepts in probability, union, intersection, mutually exclusive events, independent events</td>
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<tr>
<td>3-5</td>
<td>Intersection of dependent events, conditional probability, probability tables and probability trees</td>
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<td>6-8</td>
<td>Combinatorial analysis: permutations, combinations</td>
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<tr>
<td>Week</td>
<td>Topic</td>
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<tr>
<td>9-11</td>
<td>Random variables: expected value, variance</td>
</tr>
<tr>
<td>12-13</td>
<td>Consolidation</td>
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</tbody>
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### Course Goals

The course is designed to provide the students with the theoretical background for future statistics courses.

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### Grading

- Final exam (80% of final grade).
- Homework (20% of final grade for submitting at least 9 out of 12 HW assignments).
- Attendance bonus - 3 points for attending 10 our of 13 classes.

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### Lecturer Office Hours

Wednesday at 13:00 upon request.

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### Additional Notes

- Students are required to bring calculators to class.

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### Reading List

None.