Aim of Orientation Lectures

The Institute of Applied Mathematics emphasizes on the understanding and interpretation of other disciplines in the language of Mathematics and Statistics. The courses offered in the graduate programs requires knowledge on Calculus, Linear Algebra, and Statistics. Even these courses are taken during undergraduate studies, a short review is needed to refresh some basic concepts. Such revision is expected to aid our students to adjust to the courses more comfortably.

For this reason, a short lecture series will be given as orientation course to first year and scientific preparation students for the very first two weeks of the semester.

The six hours-course is highly recommended and new students are expected to attend.

Calculus and Linear Algebra

Preliminary Calculus and Linear Algebra Course Outline:

- Functions and limits
- Series and Derivatives
- Integrals
- Matrix Algebra

Reference books:


Statistics and Probability Theory

Preliminary Course Outline:

- Probability
- Probability distributions
- Expectation and moments
- Conditional distributions

Reference Books:

The lectures will be held via Microsoft Teams with the following schedule:

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<tr>
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<th>05.10 (Thursday)</th>
<th>06.10 (Friday)</th>
<th>09.10 (Monday)</th>
<th>10.10 (Tuesday)</th>
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</thead>
<tbody>
<tr>
<td>Statistics</td>
<td>9:00 - 12:00</td>
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<td>9:00 - 12:00</td>
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<tr>
<td>Calculus</td>
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<td>9:00 - 12:00</td>
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<td>15:30 - 18:30</td>
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