Probability Theory
I. Semester 2025/26

Neptun code: BMETE95AP45
Lecturer: Balázs Bárány
Tutors: Balázs Ráth and Damis El Alami

Midterm requirements:

To fulfil the practical courses and to get the signature:

- **Homework assignments given weekly**: To get the signature, there must be assessable results on at least 70% of the homework sheets. (Namely, if there are at least 8 homework sheets with non-zero given points.) For homework submitted within two days after the deadline, the received points will be decreased by 30%. Homework submitted later than the deadline+two days can be accepted only in a very justifiable case.
  The homework submission will be in PDF format and online via Moodle. The solutions of each exercise should be handwritten and on separate pages within this PDF file. When photographing/scanning the solutions, please ensure they are placed on each page in A4 format.
- **Midterm tests on the 6th and 12th weeks**: To get the signature, the student must score at least 40% on both midterm tests. The 1st test will be on the 13th of October (Monday) at 16:15, and the second on the 24th of November (Monday) at 16:15. The exact place will be advertised later.

For the students who failed to score 40% or want to improve their score, two retaken midterm tests will be held **on the 8th and 14th weeks**. We will consider the results obtained in the later midterm; that is, it is possible to lose points, too. The exact times and places will be announced later.

A student who failed on exactly one of the midterms can re-retake it during the week of repeats, for a special fee.

Criteria for the exam:

The criterion for the exam is the signature for the semester.

Exam:

During the examination period, there will be 90-minute written exams containing theoretical questions and practical exercises. The minimum score required for a successful exam is 40%. The exam of the students who could not achieve 40% is considered automatically inadequate. The final score for those who had reached 40% on the exam and got the signature is calculated as follows:

$$\text{homework}*0.16 + \text{midterm1}*0.17 + \text{midterm2}*0.17 + \text{exam}*0.5$$

The final mark is given by the final score x as follows:

$x<40\%$ fail   (elégtelen (1))
$40\%\leq x<55\%$ pass   (elégséges (2))
$55\%\leq x<70\%$ satisfactory (közepes (3))
$70\%\leq x<85\%$ good   (jó (4))

If the final score is $85\%\leq x$, the student can take an oral exam. He/she will be asked questions from the homework sheets, but any other topic from the semester may be discussed. In the case of a successful oral exam, the final mark is excellent (jeles (5)), but in the case of a failed oral exam, or if the student does not take the oral exam, the final mark is good (jó (4)).

3rd of September 2025.