

Probability Theory and Probability Theory 1

I. Semester 2026/27

Neptun code: BMETE95AP45 and BMETE95AM29

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Tutors: Ábel Komálovics, Balázs Ráth and Ákos Urbán

Midterm requirements:

To fulfil the practical courses and to get the signature:

- **Weekly homework assignments:** We assign homework sets weekly, with the submission deadline being the date of the next practical class. No homework can be submitted after the deadline under any circumstances. We grade submitted homework assignments within one week.

Submit homework in PDF format online via Moodle. Solutions for 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.

Regarding the homework, there is no minimum requirement to obtain the signature. However, the midterm tests and the final exam include homework exercises; see below.

Midterm tests in 6th and 12th weeks: Each midterm test will contain two exercises, one of which was among the homeworks. The midterm test is considered successful if

a) the student achieves at least 50% of the score they received on their submitted homework for the matching task,

b) they achieve at least 40% of the total score of the two exercises.

To get the signature, both midterm tests must be successful. The 1st test will be on 13 October (Tuesday), and the second on 24 November (Tuesday) during the lecture.

Students who did not meet criteria a) or b) or who want to improve their score will take two retake midterm tests **in 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 exactly one midterm can re-retake it during the week of repeats, for a special fee.

Criteria for the exam:

The exam criterion is the semester signature.

Exam:

During the examination period, there will be a 100-minute written exam containing two theoretical questions, two practical exercises and one exercise from homework. The minimum score required to pass the exam is 40%. The exam of students who could not achieve 40% is considered automatically inadequate. The final score for those who have reached 40% on the exam and have received the signature is calculated as follows:

$$\text{homework} \cdot 0.14 + \text{midterm1} \cdot 0.18 + \text{midterm2} \cdot 0.18 + \text{exam} \cdot 0.5$$

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. They will be asked questions from the homework sheets, but any other topic from the semester may be discussed. If the oral exam is successful, the final mark is excellent (jeles (5)); if the oral exam is failed, or if the student does not take it, the final mark is good (jó (4)).