

Probability Theory 2

2023/24 II. Semester

Code: BMETE95AM30 **Curriculum:** 2/2/0/V/4

Language: English

Instructor and Tutor: Balázs Bárány

Homework. During the semester, there will be homework exercises on a weekly basis (12 occasions), on which together 40 points can be gained. The points for the homework submitted after the deadline but within two days will be decreased by 30%. Homework submitted more than two days after deadline can be accepted only in a very justifiable case.

The homework shall be submitted via the moodle page of the course.

Midterms. There will be two 45 minutes midterm tests during the semester, where altogether 30-30 points can be gained.

1. Midterm 7th week (26th of March, during the practice).
2. Midterm. 14th week (13th of May, during the lecture).

Conditions for obtaining the signature. The student must achieve at least 30% of the obtainable points on the midterm tests (9-9 points) and on the homework (12 points).

Supplementary and correction possibilities. Every midterm test can be retaken (the made-up of the first midterm is on the 9th week, and of the second is on the 15th week). The results of the retaken test replace the result of the originals in any case (even if it is worse). We advertise the exact time and place of the made-up tests later.

Exam. The subject ends with an exam. Only those students can attend on the exam, who got the signature. The exam has two parts, a written and an oral examination. Students can gain on the written part of the exam 100 points. The written exam contains a theoretical part and a problem-solving part, with particular regard to exercises that were not included in the midterm tests. The minimum amount of score, which is required for a successful exam, is 40%. The exam of the students, who could not achieve 40%, is considered automatically inadequate and fail (elégtelen (1)). The final mark is based on the sum of points from the homework, midterm tests, and performance on the exam (in total 200 points).

The final degree is given by the final score p as follows:

$$\begin{aligned} 0 \leq p < 79 & \text{ fail} && (\text{elégtelen (1)}), \\ 80 \leq p < 109 & \text{ pass} && (\text{elégséges (2)}), \\ 110 \leq p < 139 & \text{ satisfactory} && (\text{közepes (3)}), \end{aligned}$$

Those students who gain at least 140 points or more are invited to the oral part of the exam. The oral part is on the topics of the theoretical lectures. Those students who do not accept the invitation automatically get the grade "good (jó (4))". Those who accept it, depending on their final point, get 2 topics (if $140 \leq p < 169$) or 1 topic (if $170 \leq p$) from the list of Topics. Depending on their performance on the oral exam, the student might get the grade "excellent (jeles (5))", or with an inadequate performance, a "good (jó (4))".

Budapest, 1st February 2024.

Balázs Bárány
Instructor & tutor