

ELTE TTK, Spring semester, 2023.

### Information for the Math. Logic Course

The course will consist of 5 topics. For the first topic (introduction) I would recommend to read

<https://builds.openlogicproject.org/courses/enderton/open-logic-enderton.pdf>

Please read the following chapters before March 30, 2023:

- 1.1, 1.2, 1.4, 1.5 (chapters 1.0 and 1.3 are optional, you may skip them),
- 6.0, 6.1, 6.4, 6.5, 6.7,
- 7.0, 7.1, 7.2, 7.3, 7.4, 7.5, 7.6
- 8.0, 8.1, 8.2, 8.3.

The first consultation will be around the end of March, we will discuss and determine the exact time, date and place later on e-mail. Till then we still may keep contact by e-mail. Further material to read will be provided around the end of March, 2023 (after the first consultation).

**Grades for the practice part.** After each topic I will give 3 exercises (altogether 15 exercises during the semester). These exercises will be available on my homepage at

<https://users.renyi.hu/~sagi/matlog-2023tavasz-downloads.html>

According to my intention, these exercises will be not so simple, but not so complicated (they are not routine, but one can solve each of them after 10-30 minutes thinking if one follows the course; writing down each solution may require further 10-20 minutes). The students will have 2 weeks for submitting their solutions. I will give 1 point for each essentially correct solution. For partially correct, or not complete, or lately submitted solutions I may give 0,5 points. The grade for the "practice" part will be determined on the basis of the homework score as follows. Students should earn at least 0,5 points for each topic and further,

- for grade 2 (satisfactory) at least 6 points should be collected,
- for grade 3 (intermediate) at least 8 points should be collected,
- for grade 4 (good) at least 10 points should be collected,
- for grade 5 (excellent) at least 12 points should be collected.

Students will receive feedback form their submitted homework within 1 week. At the end of the semester, I will give chocolate (or some other little souvenir) for students who collect at least 13 points.

**Grades for the lecture part** will be based on an oral exam. For the oral exam, I will provide a numbered list of my questions (about definitions, theorems, proofs we learned). This list will be available on my homepage after May 27, 2023. In the oral exam I will choose some numbers from this list, the student will have 60-90 (or, if necessary, even more) minutes to think over the answer and finally the student has to tell me the answer (such that the answer for each numbered item would take 10-15 minutes).

During the semester you can contact me by e-mail at [sagi@renyi.hu](mailto:sagi@renyi.hu)

Good luck, have fun!

Budapest, February 27, 2023.

Gábor Sági