

Course description of “Physics 2i”, BMETE11AX24

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Prerequisites: in order to sign up for this course, you have to complete Physics 1i (*in English*).

Content:

- Electrostatics
- Electric currents
- Magnetism
- Optics
- Quantum mechanics (if time permits)

Detailed description of topics: http://fizipedia.bme.hu/index.php/Fizika_2i_angol_nyelven_-_Mérnök_informatikus_alapszak

Tests:

- 5 tests, 20 minutes each, 5pts each.
- 1 midsemester test, 90 minutes, 100 points.

Signature:

In order to get a signature you must meet ALL of the following requirements:

1. The combined result of the 5 tests must be at least 10 points (i.e. 40% of the total 25 points).
2. The result of the midsemester test must be at least 40 points (i.e. 40% of the total 100 points).
3. You must attend at least 70% of the classes. If you are late for class by more than 10 minutes, you will be considered to have missed that class.

Grading:

Grading is based on the result of a written exam, according to the table below. Only those who have obtained a signature can sit for the written exam.

| POINTS OBTAINED AT THE EXAM | GRADE |
|-----------------------------|----------|
| 0-39.5 | 1 (fail) |
| 40-54.5 | 2 |
| 55-69.5 | 3 |
| 70-84.5 | 4 |
| 85-100 | 5 |

Homework:

During the semester you will occasionally be given homework assignments. These are not obligatory, but if you solve them you can receive extra points which will be added to your exam points.

Suggested reading:

Serway: Physics for Scientists and Engineers

Practice problems for the midsemester test and for the exam:

http://fizipedia.bme.hu/images/2/22/2015_practice_problems.pdf