

## Detailed requirements of Physics Laboratory Exercise

Three measurements have to be accomplished during the semester according to a predefined schedule. There are five measurement setups for each exercise, so 2 or 3 students will form a group.

Every student is obligated to learn the lab notes for the measurement which are based on the physics studies of the BSc. A consultation will be held once every week to help the preparation for the measurement.

At the beginning of every exercise, a short, 25 minutes test will be written to check the preparation. You can reach 30 points max on the test. During the measurement the data has to be recorded and every group has to write a lab report and send it to the corresponding teacher by e-mail with a deadline of one week (following format of the file: [name of the measurement]\_[name1]-[name2].pdf.). In the mechanics measurement computer will be used for collecting the data, you can take it home on a pendrive. You can reach 20 points max with the lab report. During the measurement every group has to write a measurement log, which has to contain the conditions and the procedure of the measurement and the measured data. The teacher will sign the measurement log at the end of the exercise and it has to be enclosed to the lab report. In total 50 points can be reached on one measurement.

To accomplish a measurement you have to reach at least 5 points on the test and 5 with the lab report, but at least 25 altogether. If a measurement is failed (you reached less than the required amount of points, or you do not appear for the measurement), you can repeat that, but only once during the semester. The time of the repetition has to be discussed with the teacher.

The report should contain:

- Short introduction about the measurement (what is the task, theoretical summary)
- Methodology, instrumental setup
- Measured data, graphs
- Evaluation of the data (fitting, answering the questions in the lab note)
- Conclusions, comparison with the literature (if possible)
- Bibliography

The points correspond to the marks as it follows:

0-75: Mark 1 (insufficient)

76-94: Mark 2 (sufficient)

95-112: Mark 3 (ordinary)

113-130: Mark 4 (good)

131-150: Mark 5 (excellent)

If one student of a group cannot attend the measurement, the other(s) still have to perform it. If somebody remains alone, they may join another group of 2 people. If a non-attendance is foreseen, you have to inform the corresponding teacher in advance by e-mail.

Sending the lab report can be delayed with one week maximum, but only once. You are not allowed to eat in the lab, and no break will be held during the measurement, In other cases the corresponding section of the TVSZ (Regulation of Studied and Exams) has to be referred.