

Information for teaching assistants:

Laboratory classes for students in (veterinary) medicine

Fall term HS 2020

Lecturer: Prof. Jürg Osterwalder

Responsible: Ruth Bründler

General information concerning the Physics course for students in medicine:

- Lectures and exercise classes are only held during fall term.
- The laboratory classes have been specifically designed for students in medicine.
- The students have to buy a workbook, which they use during the lab course.
- A part of the questions in the exam is related to the laboratory experiments they do.

Covid-9 measures:

- The students work in groups of max. 2 people; they wear masks which we distribute (the assistants also get masks) – exceptions only with medical certificate!
- The number of groups per lab room is strongly reduced. Experiments are given in parallel in two labs with hopefully two TAs taking care of the students.
- One experiment (Ultrasound US) will be given as video tutorial + Q&A session with a TA sitting with laptop and experiment in one lab room. Reason: not enough space and equipment.
- On Monday, Wednesday, and Thursday, several groups do the same experiments one after another! Here the students should not use the same devices in consecutive groups and the rooms must be aired on a regular base; if the same devices are used the students have to disinfect them at the end of the experiments.

The introductory meeting will be mandatory for everybody exceptionally!

Fall term: (there are always three different experiments in parallel, except for the first two weeks)

Labs start in the 4th week of the fall term; i.e. on **Monday, October 5, 2020**.

4th – 7th week	Additionally from week 8 on until week 13
Mechanik (Me) (kinematics and elasticity)	Elektrische Leitung und Potentiale (EL) (electr. conductivity and potentials)
Strömungsmechanik / Blutkreislauf (BK) (hydrodynamics and blood circuit)	Röntgenstrahlung und Dosimetrie (RD) (x-rays and dosimetry)
Ultraschall (US) (ultrasound sonography) – special online only (in HS20)	

Before you supervise a student's experiment you have to carry out the experiment yourself. The lab manuals were translated into English. You will find them on the website (Login sent by e-mail):

<https://www.physik.uzh.ch/en/teaching/Assistants/LabCourses.html>

Keys: The usual institute keys and UZH cards open the labs in building 11, the office 11-G-06 and a locker (spare parts, paper etc.) situated between the two floors in 11-G next to room 91. Student assistants get separate keys (contact Matthias Hengsberger).

Please, keep all doors locked (in particular 11-G-06) when nobody is in the room!

Computers and printers: The computers and printers in rooms 76, 86 and 91 are connected to a closed network. You cannot use them for a connection to the internet.

In any case: No laptops or tablets are allowed during the sessions! (Valid for you and the students).

Teaching calendar: If you miss a date due to sickness or you are absent, please, organize **as fast as possible** somebody to replace you (who knows or learns the experiment beforehand!).

Time of commencement of the experiments:

afternoon classes: Mon and Thu 12:30 and 15:30, Tue and Fri 13:00

Wednesday (veterinary med.): 8:15, 11:15, 14:15, or 13:15

Please, check every week whether you have to teach.

One experimental session:

Be on time! You have to be in the lab room a few minutes beforehand in order to prepare the experiments and to start up the computers if they are needed.

The electrical main supply is usually switched off. In each room, there is a panel for light, electricity, curtains and so on. Simply press on „Netz Ein“ to switch on mains supplies.

If computers are needed, you may start them. The normal login is

username: student and password: stud05

Bookkeeping: The „Testatblatt“ is a sheet of paper on which you sign for each student once they have carried out the experiments and made the required graphics and calculations. In order to simplify our control at the end of the semester we have **our own sheets** („Kontrollblätter“) where you sign at the corresponding name and experiment.

You find a folder with all control sheets in the office 11-G-06. Check the number of your group on the billboard and take the corresponding sheet. Bring it back after the experiments and put it back at the right place.

At the end of the day:

The students have to clean up the tables once you have signed their “Testatblatt”. Please, check that all computers are shut down before you switch off the main supplies!

Some additional remarks:

- ~~The students work in groups of two people, each. We have a capacity of 6 groups per room or 12 students. Exceptionally, we can send one or two students more in case they missed their experimental sessions.~~ Here we will have special measures this year!
- One experiment (Me) needs some organization from your side because it has two parts in different rooms. We will discuss this at the mandatory introductory meeting!

Technical problems:

- In each room, there is a wall cupboard, which contains tools, paper for the printer and so on. This helps to repair little things.
 - Students must finish their experiments in time. ~~Re-organize groups if you cannot solve the problem immediately.~~ If a device cannot be repaired within a short time, let them continue at a different apparatus.
 - Contact Ruth and/or Matthias or let a note on the table in 11-G-06 (with your name!!).
- Devices are replaced/exchanged as fast as possible. Keep in mind that we deal with hundreds of students, so things have to run smoothly.

Of course, if you have **problems, questions, or suggestions**, do not hesitate to contact us:

Ruth Bründler (internal phone number 54014, office 11-G-20) or Matthias Hengsberger (54013, 50664).

Have fun!

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