Electrical Engineering Lab

Student Group

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Electrical Engineering Lab

Preparation

Before you are allowed to participate in the lab, you must have read the lab regulations.
For insurance reasons, this must be confirmed at the first appointment before the experiments begin.

Please note that an attendance list will be provided at every on-site session.

- The tasks are worked on synchronously during the lab session. This means nobody can leave early.
- You must **print the assignment yourself**.

- Please read the experiment script and the “Preparation for the short test” thoroughly before each experiment.
- For carrying out the experiments, some Hints for Electrical Setups have been compiled to make your life easier.

Experiments


Fig. 1: ET1 Lab in SS2020

- You can find the experiment scripts in ILIAS.
- There are 6 on-site experiments at the university.
- The preparation for the short test can be found here in the wiki under each experiment (see the menu bar on the left).

Semester, group, and time allocation

- The semester allocation is shown below.
- The group allocation will be available in ILIAS from one week before lectures start.
- The course is worth 2 ECTS. This corresponds to about 50…60 hours of work to complete all content.

This is divided as follows:
- 6x 3.5h on-site lab with examination
- 6x 5h preparation

Fig. 1: Semester allocation WS2025/26

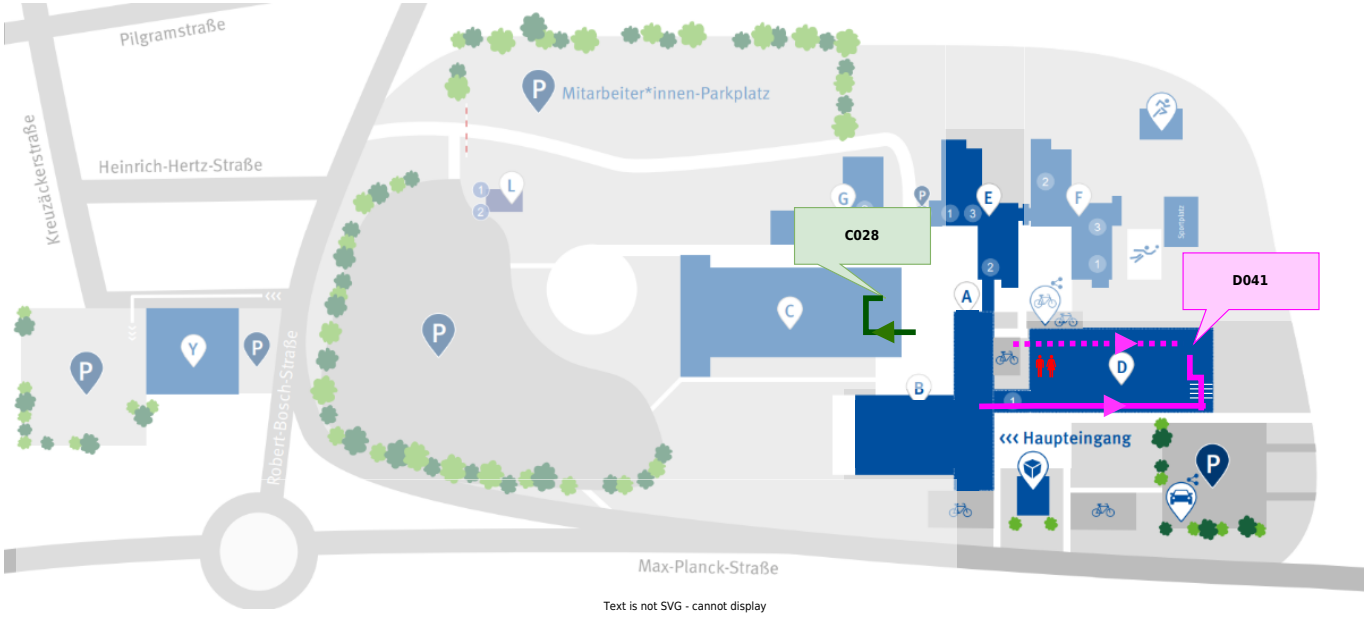
Location	Experiment	Date	Room	Group in the lab
On-site session	1 Resistors	18.03.2026	D041	GrA
		19.03.2026	D041	GrB
	2 Capacitors	26.03.2026	D041	GrB
		02.04.2026	D041	GrA
	3 Rectifier	09.04.2026	C028	GrA
		16.04.2026	C028	GrB
	4 AC Voltage	23.04.2026	D041	GrB (appointments for oral tests differ)
		30.04.2026	D041	GrA (appointments for oral tests differ)
	5 Operational Amplifier 1	07.05.2026	D041	GrA
		21.05.2026	D041	GrB
	6 Operational Amplifier 2	11.06.2026	C028	GrA + GrB
		18.06.2026	C028	GrA + GrB

Oral examination

- Prepare well (see time allocation) for the oral examination; the difficulty level will increase over the semester.
- Being well prepared means you are able to explain concepts **without any aids** (also no papers of your own). You should be able to explain the topics using examples, sketches, mathematics, as well as current/voltage waveforms.
- For all experiments, you will find on the experiment's wiki page a list of bullet points that you should be able to explain freely.
  I also recommend delving deeper into the topics than just being able to explain the individual words.
  As literature sources, the Additional Links under EEE1 (German and English) can be used.
- Furthermore, you should have worked through the materials in ILIAS before the experiment.
- The oral examinations are planned for Friday during the experiment. The dates can be found in the group allocation in ILIAS.
- After each examination, I will give you brief feedback about my impression and the partial grade achieved.

Location of the labs

The route to labs C028 and D041, where the experiments take place according to the allocation shown above, is sketched here:



Further links

- The University of Deusto offers a remotely controlled real lab where you can get a first glimpse into various experiments: https://labsland.com/en