

Additional Links

Student Group

First Name	Surname	Matrikel Nr.

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 4. examples of conductive properties (gaseous, liquid, bulk)
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5. linear sources
 - <https://en.wikibooks.org/wiki/Electronics>

You already know V-I-R and you not only connect AC/DC with music?

Great! Then you should Go one step further.

In this course we will investigate

- which ideal components are used in circuits and
- how they interact with each other and different types of current.

[Introduction in Electrical Engineering 1](#)

or: How to work with this course?

Direct Current Circuits

1. [Preparation, Properties, Proportions](#)
or: Watt is Power and Current?
2. [Simple Circuits](#)
or: about Branches and Stars
3. [non-ideal Sources and two Terminal Networks](#)

or: something lumpy with two Pins and why shots circuits may be important

4. [Network Analysis](#)

Recipes for Networking

5. [DC Circuit Transients](#)

or: unfinite Charging

Alternating Current Circuits

1. [Introduction in Alternating Current Technology](#)

or: active and reactive

2. [Circuits under different frequencies](#)

or: dampening and oscillating

[Tips for the exam electrical engineering 1](#)

Additional Links

English

- A great introductory script into electrical engineering can be found at [LibreText - Physics II Thermodynamics, Electricity and Magnetism](#). The content ist originally from [OpenStax](#) and covers most of the parts of my course
- Another good introduction ist given by [HyperPhysics](#)

German

- [Online Brückenkurs des KIT/Uni Stuttgart](#): Nice, partly animated online script, covering chapters 1, 2, 3 and 5 (German)
- [H.Er.T.Z der HS Karlsruhe](#): The **H**ochschuloffene **E**lekt**r**otechnik **Z**entrum of the Karlsruhe HS has a nice [online script](#) (German)
- [LeifiPhysik](#): Here you can find further explanations of our chapters on vocational school/gymnasium level. (German)
- [simple club](#): simple club: explanatory videos on electrical engineering in the field of physics ; subscription not necessary!
- [Elektrotechnik einfach erklärt](#): still few, but well developed videos
- [Elektrotechnik in 5 Minuten](#): good fund of short videos

Exercises

- In addition to the H.Er.T.Z script (see above), there are further [exercises](#).
- Further exercises will be distributed via ILIAS

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Last update: **2022/10/05 11:37**

