

0. Introduction to electrical Engineering

Student Group

First Name	Surname	Matrikel Nr.

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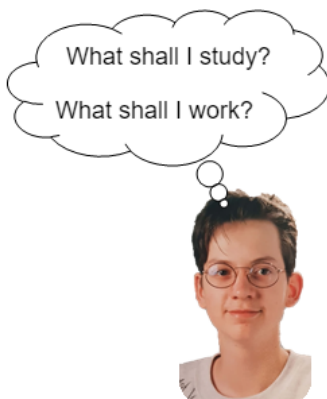
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0. Introduction to electrical Engineering

0.0 myself

My Resume

Tim Fischer



My Resume

My Resume

My Resume

My Resume

my subjects

- Electrical Engineering and Electronics I/II
- Electronics Laboratory
combined with Elektronik Labor
- Microcontrollertechnik (in German)
- Electronic Systems
combined with Elektronische Systeme

further connections

- Projects Studies (Laborarbeit)
- Student Research Project for Bachelor
(Bachelor Seminararbeit)
- Bachelor Thesis
- Student Research Project for Master
(Master Seminararbeiten)
- Master Thesis
- PhD Thesis

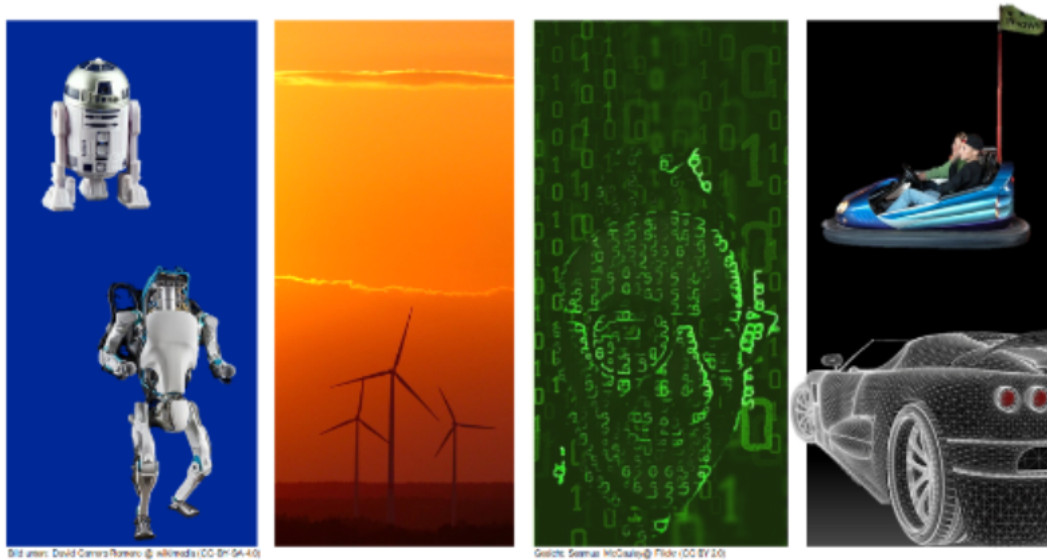
0.0 You

A glance around

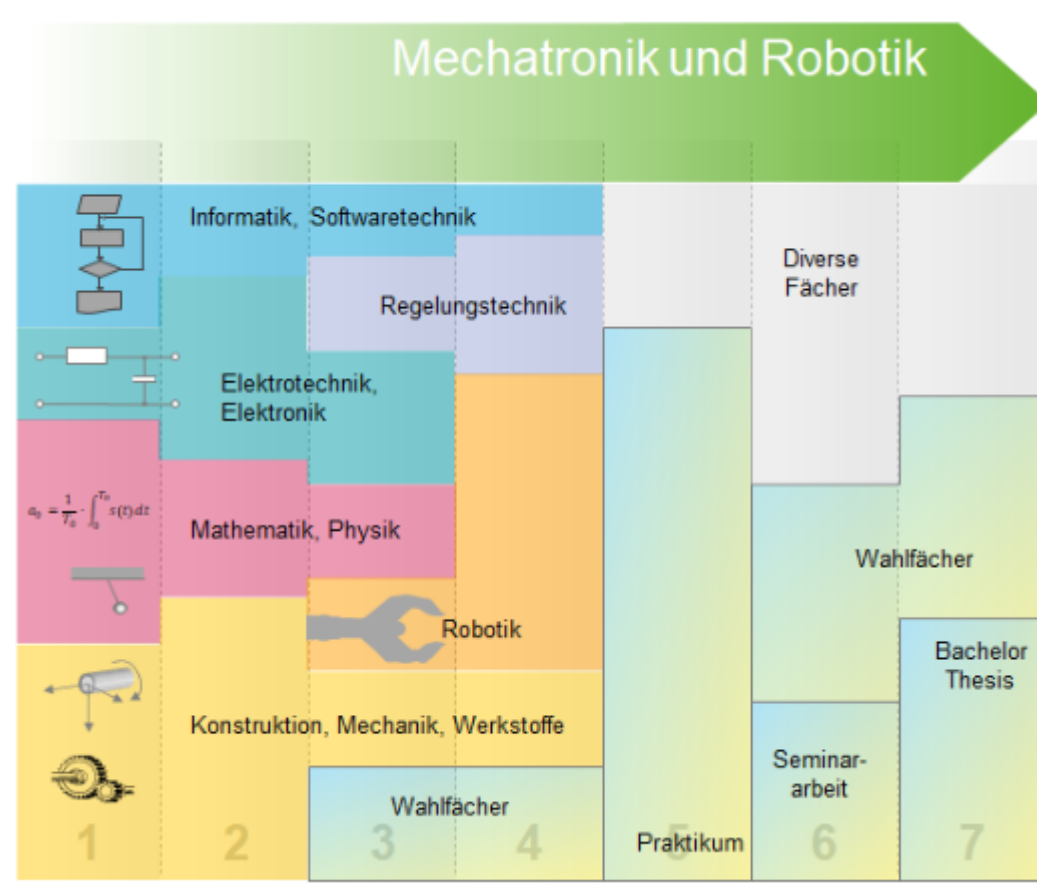
Point of Origin

0.1 What does your future look like?

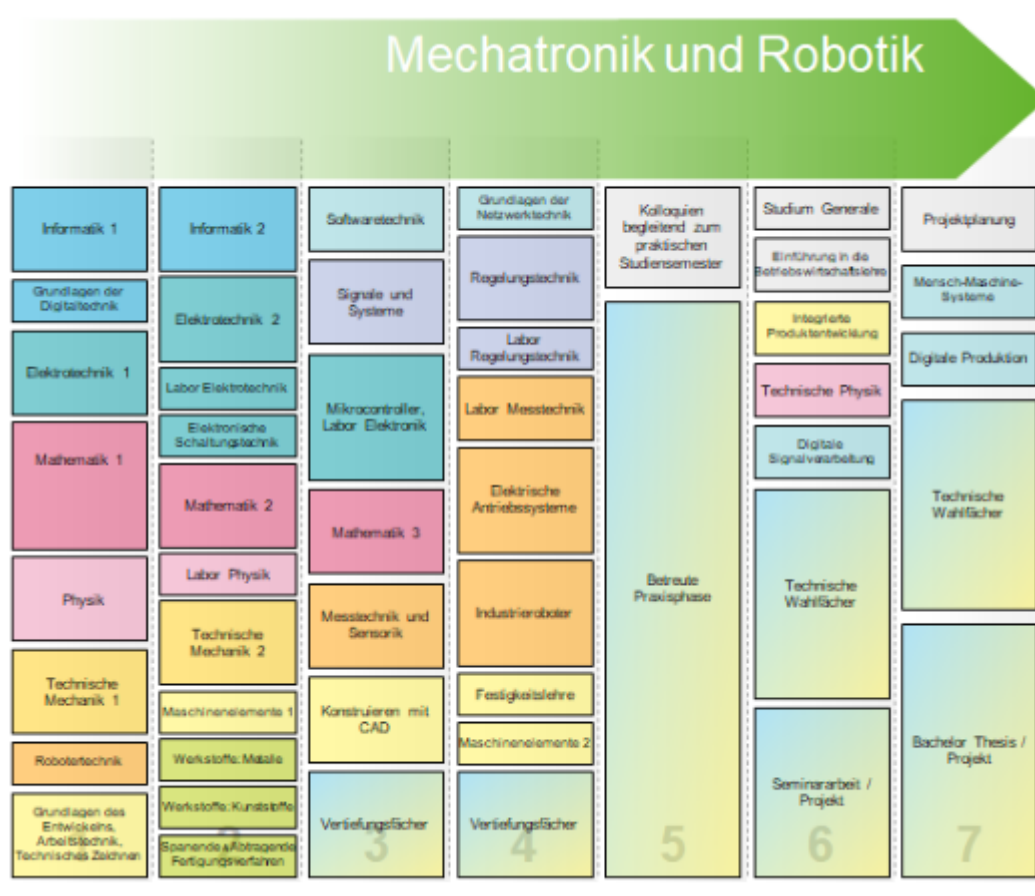
Outlook



Overview of the Lectures (MR)



Overview of the Lectures (MR)



0.2 What should you bring with you?

General



- Ability to engage with abstract issues
- Motivation to learn not only during lectures but also lecture-accompanying
- The secret of “to be able” lies in “to want”

Mathematics/Physics



- Understanding of physical problems
- Vectors
- Linear systems of equations/matrices
- Differential and integral calculus
- complex numbers

0.3 Sources for "Aftermath"

V Hacker, et al	Electrical Engineering - Fundamentals: A great, compact textbook covering about the same range as this course. (Use University VPN to get the textbook)
F T Ulaby, et al	Circuit Analysis and Design is a beautifully written and illustrated textbook with the same range of topics like this course. (It is also free to download and used in many US universities.)
$\quad \quad \quad$ $\quad \quad \quad$ $\quad \quad \quad$	Online Simulator by Falstad It is a good idea to illustrate electrical engineering principles via simulations. A nice possibility is the Falstad Simulator. There, under the menu item "Circuits", you can find a wide variety of setups.
	MEXLE-Wiki

0.4 Scared by the topics in the first week?

- Use the [Maths Learning Centre](#) (further down the link).

Contrary to what you might think at first glance, you can also go there for questions about "related subjects". There you will find students from higher semesters who can help you with homework and problems with the lecture material. They can also give you tips on how to study.

- Try to do as many exercises as possible
- Try to stick with it and study and read in a timely manner. The semester picks up quickly...
- Form study groups / join study groups.

BUT: first try the exercise yourself and get creative, then ask fellow students!

0.5 Further information on EEE1

Tutorials

- 1 Tutor (starting from November)
- Discord / Whatsapp / or similar

Written exam EEE1

- Time: 90 minutes
- allowed aids in the exam:
 - scientific, non-programmable calculator
 - Drawing aids, e.g., set square ("Geo-Dreieck"), ruler
 - 2 double-sided sheet DIN-A4 handwritten formulary (or 4 one-sided sheets)
- **No pure printouts, no solutions from tasks** (can lead to failing the exam)
- Note: A legible and comprehensible calculation process must be available for each result.

0.6 Further information on EEE2

Written exam EEE2

- Time: 90 minutes
- allowed aids in the exam:
 - scientific, non-programmable calculator
 - Drawing aids, e.g., set square ("Geo-Dreieck"), ruler
 - 4 double-sided sheets DIN-A4 handwritten formulary (or 8 one-sided sheets)
- **No pure printouts, no solutions from tasks** (can lead to failing the exam)
- Note: A legible and comprehensible calculation process must be available for each result.

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Last update: 2026/09/21 10:12

