

# sidebar

## Student Group

First Name	Surname	Matrikel Nr.

## Table of Contents

## Content Constants Calc

## EEE1 - Electrical Engineering and Electronics 1

### Introduction in EEE1

#### Electrical Fundamentals

Block 01 — Physical quantities

Block 02 — Q, I, U

Block 03 — R, P

#### DC Networks

Block 04 — Kirchhoff's laws

Block 05 — Resistive networks

Block 06 — Real sources

Block 07 — Power-relevant figures

Block 08 — Two-port theory

#### Electrics

5 The electrostatic Field

6 The stationary el. Flow (\*)

#### Magnetics

7 The magnetostatic Field

8 time-dept. magnetic Field

9 Magnetic Circuits (\*)

#### 10. OpAmps



Charge on electron (e)	$1.60217634 \times 10^{-19} \text{ C}$
Avogadro's number (NA)	$6.022142 \times 10^{23} \text{ 1/mol}$
Permeability of vacuum $\mu_0$	$12.566370614 \times 10^{-7} \text{ Vs/Am}$ $4\pi \times 10^{-7} \text{ Vs/Am}$
Permittivity of vacuum $\epsilon_0$	$8.854187817 \times 10^{-12} \text{ As/Vm}$

From:

<https://mexle.te.hs-heilbronn.de/> - **MEXLE Wiki**

Permanent link:

[https://mexle.te.hs-heilbronn.de/electrical\\_engineering\\_and\\_electronics\\_1/sidebar?rev=1759104316](https://mexle.te.hs-heilbronn.de/electrical_engineering_and_electronics_1/sidebar?rev=1759104316)

Last update: **2025/09/29 02:05**

