

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

Electric Field

Block 09 — Coulomb Force, E-Field

Block 10 — Field Patterns

Block 11 — Displacement Field

Block 12 — Capacitors, Capacitance

Block 13 — Caps Circuits, Energy

Block 14 — Conduction Field

Magnetic Field

Block 15 — Magnetic Field, Effects

Block 16 — Ampères Law

Block 17 — Magnetic Flux D., Lorentz Force

Block 18 — Magnetic Flux, Induction

Block 19 — Magnetic Circuits

Block 20 — Inductivity, Energy

Operational Amplifiers

Block 21 — Op-Amp Basics

Block 22 — Negative FB Circuits

Block 23 — Comparator Circuits

Block 24 — Wrap-Up, Apps



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 μ_0	$12.566370614 \times 10^{-7} \text{ Vs/Am}$ $4\pi \times 10^{-7} \text{ Vs/Am}$
Permittivity of vacuum ϵ_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=1764692310

Last update: **2025/12/02 17:18**

