

# Introduction to Digital Systems

## Student Group

First Name	Surname	Matrikel Nr.

## Table of Contents

**Introduction to Digital Systems** ..... 2

***Inseriton*** ..... 2

***Tips for the exam*** ..... 2

***continuing Links*** ..... 2

# Introduction to Digital Systems

No matter, whether you have to deal with a programmable logic controller (PLC) of a robot in the future, or if you just want to know how a mobile phone controls a display (or a microcontroller controls a light emitting diode) - the following chapters are indispensable. The knowledge gained can also be transferred to pure application programming in languages like Java or C.

## Introduction

oder: How to deal with the course?

1. [Tools](#)
2. [Boolean Algebra](#)  
Or:  $2B + \neg 2B$ ?
3. [Number Systems](#)  
Or: When is  $1 + 1 = 1$ ?
4. [Combinatorial Logic](#)  
Or: A different kind of logic puzzles
5. [Realization of comb. Logic](#)  
Or: The logic behind the mensa card
6. [Storage Elements](#)  
Or: The short-term memory of a controller
7. [Sequential Logic](#)  
Or: Inside a vending machine

## Inseriton

1. [At the heart of a computer](#)

## Tips for the exam

1. [Tips for the exam](#)

## continuing Links

1. [Digital](#): this tool is used for simulating digital circuits. From Github only the zipfile: Digital.zip is needed.
1. [Detailed German online script of the University of Stuttgart.](#)  
This covers a broader scope than we have in the lecture HHN in the department.
2. [Digital technology on elektroniktutor.de](#) and [INF-Schule](#):  
Here you can find further explanations of our chapters on vocational school/gymnasium level in German.

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

Permanent link:  
[https://mexle.te.hs-heilbronn.de/introduction\\_to\\_digital\\_systems/start?rev=1631617009](https://mexle.te.hs-heilbronn.de/introduction_to_digital_systems/start?rev=1631617009)

Last update: **2021/09/14 12:56**



