

Introduction to Digital Systems

Student Group

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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

Or: How to deal with the course?

0. Tools

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

Tips for the exam

1. [Tips for the exam](#)

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

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1. [Digital](#): this tool is used for simulating digital circuits. From Github only the zipfile: Digital.zip is needed.
2. [From NAND to Tetris](#): A course starting at the same point like this course, but developing a full microcontroller, operating system and game onto it.
3. [Detailed German online script of the University of Stuttgart.](#)
This covers a broader scope than we have in the lecture HHN in the department.
4. [Digital technology on elektroniktutor.de](#) and [INF-Schule](#):
Here you can find further explanations of our chapters on vocational school/gymnasium level in German.

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