Introduction to Digital Systems

Student Group

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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](#)

continuing Links

1. [Digital](#): this tool is used for simulating digital circuits. From Github only the zipfile: Digital.zip is needed.
2.
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.