Introduction to Technical Computer Science

Registration

You need to register for this lecture. Please register in CampusOffice until 2006-11-13.

Content

The introduction to technical computer science is one of the mandatory lectures within the bachelor computer science studies. The goal here is to give the students an overview of elementary functionalities of modern computational devices and to mediate a computer's composition in principle from a hardware point of view. For this, we will present the basic modules and the most fundamental architectural principles of computers.

Specifically, we will discuss the following topics:

- Boolean functions
- Combinatorial circuits
- Control units
- Computer arithmetics
- Computer architecture
- Micro programming
- Micro processors
- Assembler programming

Literature

- Rechneraufbau und Rechnerstrukturen by Walter Oberschelp, Gottfried Vossen
- Becker, Dechsler, Molitor: Technische Informatik. Pearson 2005

Schedule

- Regular Lecture Dates
  - From 2006-10-19 on, every thursday from 10:00am -11:30am in the Audimax (AM) lecture hall.
  - There will be an additional lecture session on Friday 2006-10-20 from 2:30pm - 4:00pm in AM.
  - There will be no lecture on 2006-12-07. An exercise exam will take place instead (AM 10:00am -11:30am).
- Regular Exercise Sessions
  - From 2006-10-20 on, every Friday from 2:30pm - 4:00pm in the Audimax (AM) lecture hall.
- One-time Exercise Examination
  - On Thursday 2006-12-07 there will be an exercise exam in Audimax (AM) from 10:00am -11:30am.

Exams

1st Exam

As announced in the Campus system, the Bachelor exam will take place 2007-03-07 at 1:30pm. You are merely allowed to take pens, your personal id card and student id card with you. Other aids are not permitted. The duration of the exam will be 120 minutes.

In case you need a Schein but have not registered, yet please do this immediately by contacting our research assistant Andreas Polzer via email!

Room distribution:

- FO1: 89601-272387
- FO2: 272428-273695
- Gr (Audimax): 273698-275138
- Ro (Audimax): 275172-277116

NOTE THAT THE EXAM INSPECTION WILL BE ON MONDAY 2007-03-12!

- Location: AH3
- 227145-272496 from 12:30pm - 2:00pm
- 272510-274196 from 2:00pm - 3:30pm
- 274213-277116 from 3:30pm -4:30pm

The exam results are available on the password secured website.

2nd Exam

As announced in Campus, the Bachelor exam will take place 2007-03-29 from 1:30pm on. You are merely allowed to take pens, your personal id card and student id card with you. Other aids are not permitted. The duration of the exam will be 120 minutes.

Room distribution:

- AH V: 227145-273786
- AH IV: 273790-277020

The inspection will be in the follwing week. Please check this page on 2007-03-30 for information on the exact inspection date. You will be able to register for the addendum oral exam during the inspection!

Contact

- Questions of general interest can be discussed in the forum.
- Dipl.-Inform. Ralf Mitsching
- Dipl.-Inform. Andreas Polzer
- Dr.-Ing. Falk Salewski

From:
Lehrstuhl Informatik 11 - Embedded Software Laboratory (http://www.embedded.rwth-aachen.de/)

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