Lecture 0

Overview of the Lecture

Revised by WJ Han

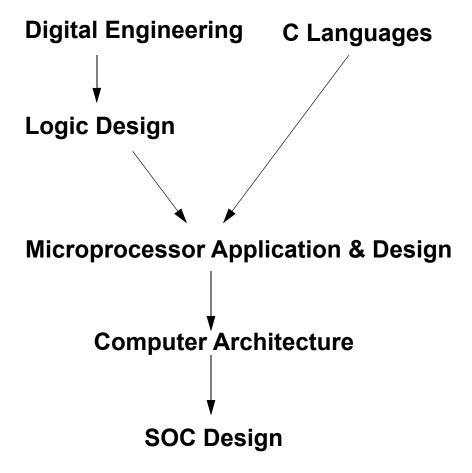
Digital Engineering

- Analog systems process signals that can take on any value across a continuous range of voltage, current, etc.
- Digital systems take on any value too but we pretend they don't.
- Digital systems are modeled to take on only one of two values (1 or 0, True or False, High or Low, Tom and Jerry, whatever).
- Things are much simpler if we use digital representation.

Digital Engineering Application

- Digital systems like computers, TV, audio, ...
- VLSI (ASIC) design.
- Communication
- Signal processing
- In fact, it is much easier to list the fields that do not need digital engineering background these days.

Relevant Courses



Course Road Map

- Basic Theory
- Gate-Level Minimization
- Combinational Logic

Recommended Textbooks

• Digital Design, 5rd Edition, M. Mano / Michael D. Ciletti, Pearson 2013

Class Notes

- You can get the class notes in pdf format from my web site,
 http://www.eshopping.co.kr
- The class notes are in pdf format so you need Adobe Acrobat Reader which can be downloaded from "http://www.adobe.com".

Class Policy

- If you do not take any midterm or final exam, your grade will be F.
- There will be no exceptions.

Grading

• Midterm Exam: 40%

• Final Exam: 40%

• Quiz : 10%

• Attendance : 10%

If You Need to Talk to Me

- We can talk about anything (except missed homework or exams).
- Please let me know through email at wjh@korea.com or talk to me after class.