

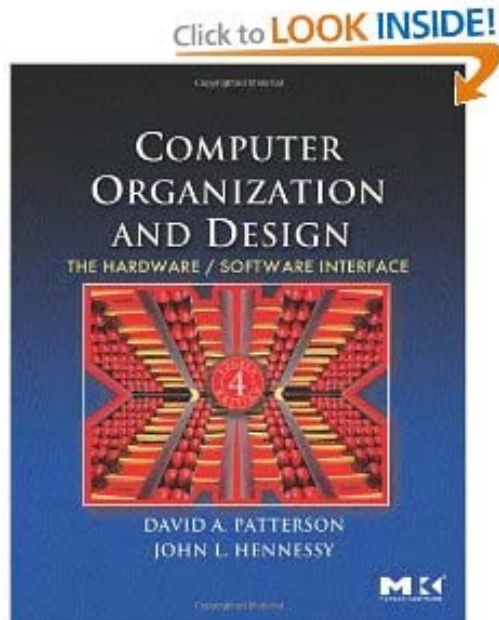
Course Administration

- Instructor: Ing-Chao Lin (林英超)
 - email: iclin@mail.ncku.edu.tw
 - Tel: +8866-2757575 ext. 62553
- Teaching Assistant: To be announced
 - Lab:
 - Phone: 06-2757575 ext. 62530-33
 - Email: nckuideallab@gmail.com
- Office hour: To be announced
- Course Website:
 - <https://sites.google.com/site/nckuideal/courses/comporg/comporg2015> announces and slides will be posted here
 - <http://moodle.ncku.edu.tw> – submit your homework there



Textbook

- Textbook
 - Computer Organization and Design: The Hardware/Software Interface, 4th ed., 2009, by David Patterson and John Hennessy
- 5th version is also available



Topics Covered

- Computer Abstraction and
 - Performance
 - Power Wall
- Instructions:
- Arithmetic for Computers
 - Addition/Subtraction
 - Multiplication/ Floating point
- The Processor
 - Data path /pipeline
- Memory Hierarchy
 - Cache basics/ Virtual memory
- Storage



Prerequisite

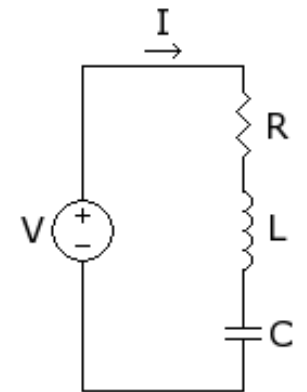
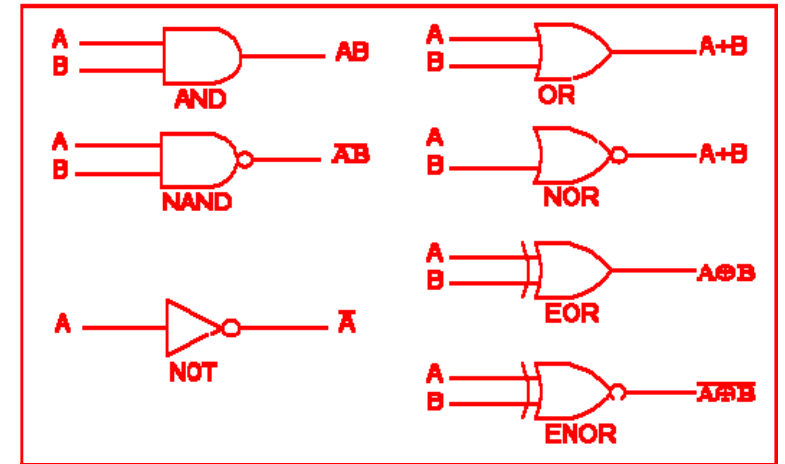
- English
- Introduction to Circuits Theory and Digital Electronics (F720401)

- Basic Circuit Theory
- Frequency response and Bode plot
- Semiconductor and Transistors
- Transistor Circuitry and Amplifier
- Logic Circuits

- Introduction to Digital System (F720900)

- Logic Gates and Gate-Level Minimization
- Combinational Logic and Synchronous Sequential Logic

- Programming Language: C and Verilog



Tentative Grading (the ratio may vary by 5%)

- **Homework and Lab Assignment (25 %)**
 - Additional homework hour on Thursday 12:30 ~ 1:00 (not every week, TA will announce in advance)
 - No late submission without justified reasons
- **3~4 Quiz (30%) (No midterm exam)**
- **Final exam (25%)**
- **Class Participation (Attendance and In-class quick test, 20%)**
 - You need to sign in each class
 - **Honesty is the best policy.** If someone else sign for you, you will lose **5 points** of your final grade **for each time.**



國立成功大學學則

- 第九條 學生因請假而缺課者，稱為缺席，無故缺席者稱為曠課。學生請假辦法另定之。
- 第十條 學生曠課一小時，扣所缺科目學業成績分數一分，請假缺席三小時，扣所缺科目學業成績分數一分。因公請假，或因病請假而經醫生診斷出具證明書，或因懷孕、生產、哺育三歲以下幼兒而核准之事（病）假、產假，其缺席不扣分。
- More rules
 - 國立成功大學試場規則
 - 國立成功大學學生缺席、曠課扣分、扣考辦法
 - 國立成功大學教室使用守則

<http://cid.acad.ncku.edu.tw/files/11-1056-603.php>



Laptop & Tablet issue

- It's ok if you use **laptop** or **tablet** for class-related issues, such as reading course slides.
- However, It's not allowed to use laptop or tablet for things that **are not related to class**.
- I want everyone to be here and present

You will lose **2** points of your **final** grade for each violation.



Homework 1 (1% of your final grade)

- Prepare a ppt slide and put your head shot picture (大頭照).
- Minimum Image Size: 140x200 pixels
- Mail to nckuideallab@gmail.com by 3/2 (Monday) 11:50PM

計算機組織學生資料



- 姓名：林英超
- 班別：乙
- 座號：F761234567

Minimum Image Size: 140x200
Photo taken within **one year**



In-class quick test

- In-class quick test is a very simple test.
- Normally take less than **10** minutes.
- Cover what I taught in **last** class
- Basically, it is random, will not be announced **in advance**

