CS2100 COMPUTER ORGANISATION

http://www.comp.nus.edu.sg/~cs2100/

Welcome

(AY2020/21 Semester 2)

Welcome to CS2100

1. Lecturers
2. Course Materials
3. Course Description
4. Assessments
5. Textbooks
6. Admin Matters

1. Lecturers

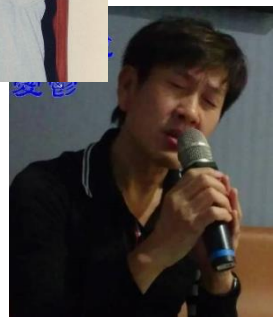
Mr Tan Tuck Choy, Aaron
Office: COM1-03-12
Email: tantc@comp.nus.edu.sg

Admin appointment:
Assistant Dean
(Undergraduate Studies)

Running

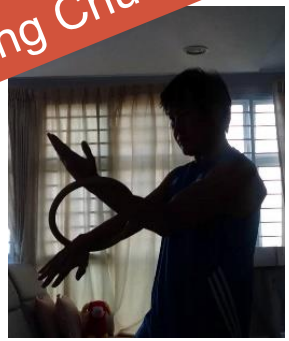
Weekly group run with students.
You're welcome to join us!
Check out facebook.

Singing



Karaokeing with students.

Wing Chun

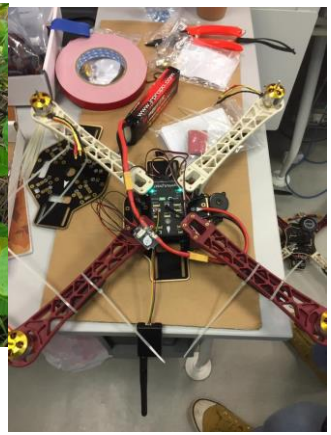


1. Lecturers

Colin Tan

Office: COM2-02-55

Email: dcsaysp@nus.edu.sg



2. Course Materials

- LumiNUS
  - https://luminus.nus.edu.sg
- CS2100 website (backup in case LumiNUS is down)
  - https://www.comp.nus.edu.sg/~cs2100

2. Course Materials

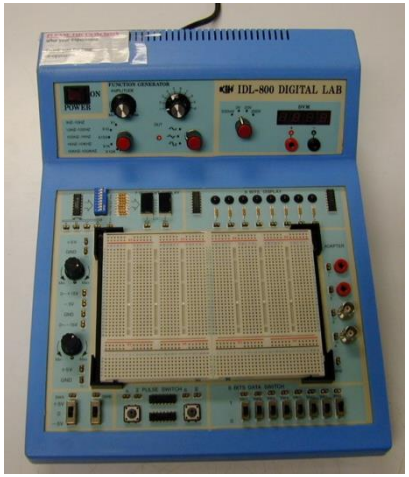
- Credit for Lecture Materials
  - All materials used in this course are from A/P Aaron Tan:
    - Colin's parts may contain minor modifications and additions/deletions.

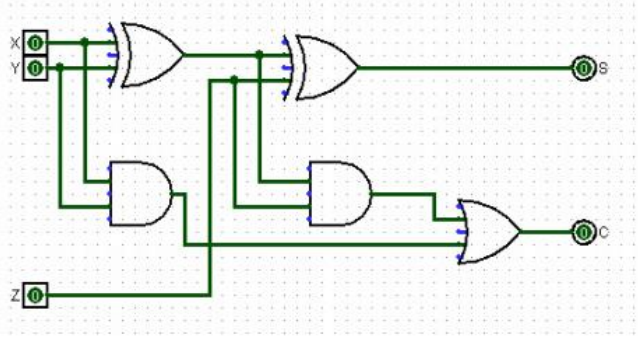
3. Course Description (1/3)

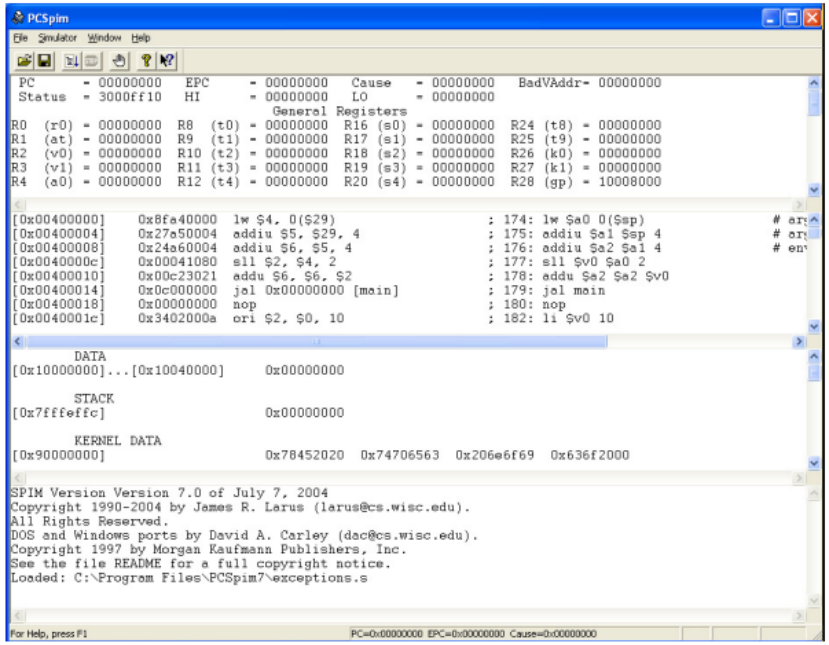
- The objective of this module is to familiarise students with the fundamentals of computing devices
  - The basics of data representation
  - How the various parts of a computer work, separately and with each other
- Topics
  - C programming language
  - Data representation and number systems
  - Assembly language
  - Processor datapath and control
  - Pipelining
  - Cache
  - Combinational and sequential circuit design

3. Course Description (2/3)

- Practical aspects
  - Logic design experiments
  - Logisim software
  - QTSpim software







3. Course Description (3/3)

- Quotes

"What I hear, I forget.
What I see, I remember.
What I do, I understand"
– Chinese Proverb
不闻不若闻之，闻之不若见之，见之不若知之，知之不若行之；学至于行之而止矣。
– 《荀子·儒效》

"The important thing is to understand what you are doing, rather than to get the right answer"
– Tom Lehrer

4. Assessments

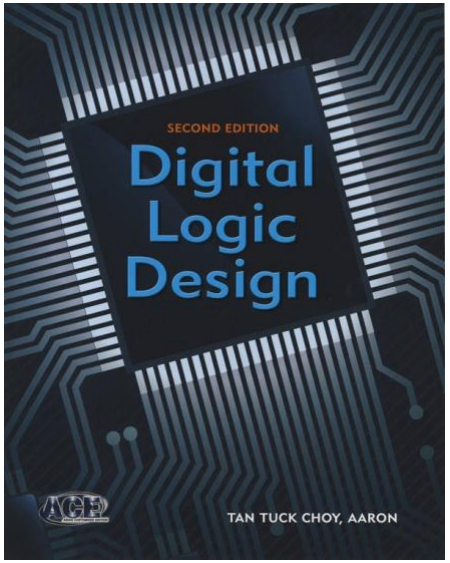
CA component	Weightage
Tutorial attendance	5%
3 Assignments	12%
Labs	13%
Mid-term test *	20%
Final exam *	50%

* Open Internet. All tools except those that facilitate communications are allowed.

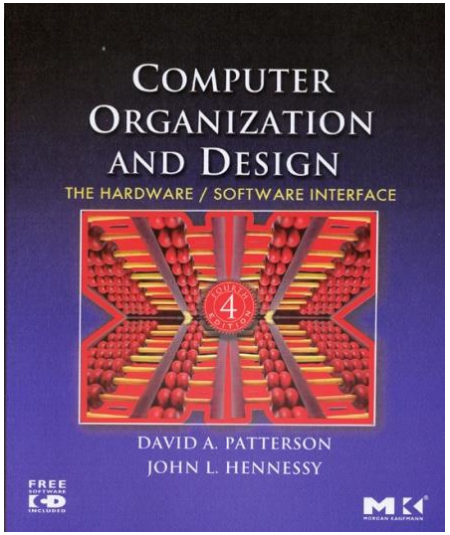
5. Textbooks

- **Digital Logic Design (DLD) 2nd edition**
  by Aaron Tan
  McGraw-Hill
  - Book + ebook bundle (include errata sheet)

Please refer to module website "Errata" page for errors in the book.



- **Computer Organization and Design (COD), 4th edition**
  by David A. Patterson and John L. Hennessy, 4th ed, Elsevier



6. Admin Matters (1/2)

- Lectures are on Zoom
- All course materials (lecture slides, tutorial questions, lab questions, etc.) will be uploaded on LumiNUS and the CS2100 website week by week
- Tutorials and labs start in week 3 (25th Jan 2021)
- Mid-term test
  - 10 March 2021, Wednesday, 6.30 – 8.30 pm
  - **PLEASE BLOCK THIS DATE.**
  - Please check LumiNUS announcements for updates
- Please post your queries on LumiNUS forums
  - Everybody can help answer and everybody can read the answers
  - Email instructors at ctank@comp.nus.edu.sg (Colin) or tantc@comp.nus.edu.sg (Aaron) for personal matters.

6. Admin Matters (2/2)

- Online tutorial/lab registration – through ModReg.
  - Lab group and tutorial group are independent.
  - Appeal through ModReg, please do NOT email me!
  - Priority will be given to those without a group, instead of those who already have a group but wish to change.
  - Do not worry if your lab/tutorial is back to back with the lecture. I will be punctual in starting my lesson and CS2100 lectures/tutorials/labs should end 15 minutes before the hour.
  - After you get your assigned group, please stick with it.
  - If you need to attend another group for just one week, please send an email to me (at least a few days in advance) with your reason or attendance will not be taken by the tutor/labTA.

7. IMPORTANT DATES

- See https://www.comp.nus.edu.sg/~cs2100/1_module_info/sched.html
- **CS2100 MIDTERM QUIZ**

  WEDNESDAY 10 MARCH 2021, 6.30 PM to 8.30 PM. BLOCK OUT THIS DATE AND TIME.

- Assignment 1: Issued 5 Feb 2021, Due 1 pm 15 Feb 2021.
- Assignment 2: Issued 10 Mar 2021, Due 1 pm 20 Mar 2021.
- Assignment 3: Issued 31 Mar 2021, Due 1 pm 10 Apr 2021.
- **CS2100 FINAL ASSESSMENT**

TUESDAY 27 APRIL 2021, 4 PM TO 8 PM (Actual assessment is from 5 pm to 7 pm, but block the time indicated)

8. Important Links

- Lectures:
  - https://nus-sg.zoom.us/j/86710701168?pwd=TmwzcEdYWWJsV2ZXd1JKVG1oZ2g1dz09

  Meeting ID: 867 1070 1168

  Password: 227945
- Telegram (Please join!):
  - https://t.me/joinchat/HQWzz-UiLOc1vlHF

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