課程大綱

一、課程目標 Course objectives:

使學生能了解電子學的知識並活用於元件、電路與系統之設計,成為優良的電子工程師。

- 二、師生晤談時間及地點 Instructor office hours: 星期三早上 10:10-12:00,科一 216-2,其他時間請先約定
- 三、授課方式 Teaching approach: 課堂講解
- 四、評量方式 Grading criteria: 期中考(I)(II)(40%),期末考(20%),作業小考(30%),平常表現(10%)
- 五、參考書目 Textbook & references:
 - 1. Behzad Razavi, Fundamentals of Microelectronics, John Wiley & Sons, 2008
 - 2. Donald A. Neamen, Microelectronics Circuit Analysis and Design, McGraw-Hill, 4th Ed., 2010.
 - 3. Sedra Smith, Microelectronic Circuits, Oxford University Press, 5th Edition, 2004.

備註 Remarks:

- 1. 上課請勿遲到早退,嚴禁飲食喧嘩. 請同學們遵守智慧財產權及不得非法影印.
- 2. 任何問題, 請透過 email: sheu@ncnu.edu.tw, 或電話 4881 分機, 或直接找我面談.
- 3. email 給我時, 請用學校的帳號, 以免被當成垃圾信件而致影響權益.

Course Assistance

- Office hours: Wednesday 10:00-12:00, or any time checked with me in advance
- My office: Science and Technology Building I, Room 216-2
- My email: sheu@ncnu.edu.tw
- My phone: campus extension 4881, or 0952-616742
- Tutorship: Science and Technology Building I, Room 512
- Tutor time: please check with TA
- > Facebook club, if necessary, will be open for discussion

Electronics (I)

- Electrical engineering: dealt with motors, generators, and wire transmission.
- ➤ **Electronics**: the science of moving charges in a gas, vacuum, or semiconductor (but not in metal;) involving transistors and transistor circuits.
- Most electronic circuit design today involves integrated circuits (ICs) fabricated on semiconductor material, refers to microelectronics.
- ➤ The purpose of this course is to provide a foundation for analyzing and designing electronic circuits.
- The first semester of Electronics, and there will be two more semesters.