

1. Course Description:

This course introduces the fundamental techniques of circuit analysis.

2. Text book:

Foundations of Analog and Digital Electronic Circuits, Anant Agarwal and Jeffrey Lang, published by Elsevier and Morgan Kaufmann Publishers

3. Teaching Method:

Lectures offered in Mandarin

4. Evaluation:

Quiz: 40%

Midterm: 30%

Final: 30%

* Calculators are allowed in all examinations

5. Class Webpage: NTHU e-learning system (<http://lms.nthu.edu.tw>)

6. Syllabus:

* Fundamental circuit laws	Chapter 1
* Basic analytical techniques	Chapter 2
* Linear circuit analysis	Chapter 3
* Energy storage elements	Chapter 9
* First-order circuits	Chapter 10 and 11
* Second-order circuits	Chapter 12
* Sinusoidal steady state	Chapter 13 and 14
* Operational amplifiers	Chapter 15

7. Instructor:

Ping-Hsuan Hsieh
R908 Delta Building
phsieh@ee.nthu.edu.tw
03-574-2590