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%

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

6. Syllabus:

* Fundamental circuit laws

* Basic analytical techniques

* Linear circuit analysis

* 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

^{*} Calculators are allowed in all examinations