

**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:**

Homework:	20%	(no late homework)
First Midterm:	20%	10/20/2014
Second Midterm:	25%	12/01/2014
Final:	35%	01/12/2015

\* Calculators are allowed in all examinations

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

**6. Syllabus:**

- \* Fundamental circuit laws
- \* Basic analytical techniques
- \* Linear circuit analysis
- \* First- and second-order circuits
- \* Phasor analysis for AC circuits
- \* AC power analysis
- \* Bode plot and frequency response
- \* Operational amplifiers (optional)
- \* MOSFETs and digital circuits basics (optional)

**7. Instructor:**

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