

Elc 106.1 Syllabus

1st Semester, SY 2008-2009

Department of Electronics, Computers, & Communications Engineering
School of Science and Engineering
Ateneo de Manila University

Course Title: Electric Circuits II

Course Credit: 3 units Lecture

Course Description: Electric circuit analyses and syntheses using network theorems & techniques in time, frequency, phase, and s- domains.

Course Objectives: The student is expected...

- 1) To understand the concept of voltages, currents, resistances, capacitances, inductances, etc; and
- 2) To be familiar with the basic analytical tools in circuit theory in the time, phase and frequency domains,

Course Topic Outline:

- I. A Review of Elc 101
- II. Sinusoidal Excitation and Phasors
- III. AC Steady-State Analysis
- IV. AC Steady-State Power
- V. Three-Phase Circuits
- VI. Complex Frequency and Network Functions
- VII. Frequency Response
- VIII. Transformers
- IX. Laplace Transform and Applications

Course Text (Lecture):

David E. Johnson, Johnny R. Johnson, John L. Hilburn, & Peter D. Scott. **Electric Circuits Analysis**. 3rd edition*. New York: John Wiley & Sons, 1998.

Course References (Lecture):

Carlson, & Gisser. Electrical Engineering Concepts and Applications. Addison-Wesley, 1990.
Schaum's Outline Series.
Smith, & Dorf. Circuits, Devices and Systems. 5th ed. Wiley, 1992.

Course Requirements and Grading System:

Lecture		Grading System	
Long Exams		93 & above	A
Quizzes		87 - 92+	B+
Recitation		80 - 86+	B
Final Exam		73 - 79+	C+
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		60 - 66+	D
		below 60	F
COURSE GRADE	100%		

Class Policies:

- 1) Students are expected to have read the topic ahead of class time.
- 2) Attendance will be checked (by the beadle). This will be done 5 minutes after the second bell, after which tardiness will be considered a cut. There is no distinction between excused and unexcused absences.
- 3) Maximum allowed number of cuts is 9 (lecture) and 3 (laboratory). Exceeding the number of allowable cuts in either the lecture or the lab automatically merits a grade of W in the course.
- 4) No make-up quiz/recitation/report/exam will be given. Conflict in schedules should be relayed to the teacher in advance.
- 5) All projects, experiments and reports get a 10% deduction for every day late (counting non-working days).
- 6) In this class, academic dishonesty includes, but is not limited to, cheating, plagiarizing, having unauthorized possession of examinations, passing off someone else's (book, internet sites, etc.) work as one's own, or tampering with the academic work of other students. Those who are caught committing acts of academic dishonesty automatically get a zero for that particular course work.

Course Instructor: Jose Claro Monje

Consultation Hours: MWF: 10:30AM – 12:00N; TTH - by appointment

I have read and understood the contents of this material, Elc 106.1 Syllabus. I also agree to be bound by the class policies stated herein.

Signature over Printed Name

Date