Elc 101.1 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 I
Course Credit: 3 units Lecture
Course Description: Electric circuit analyses and syntheses using network theorems & techniques.

Course Objectives: T**he student is expected**

1. To understand the concept of voltages, currents, resistances, capacitances, inductances, etc;
2. To be familiar with the basic analytical tools in circuit theory;
3. To correctly apply these tools in time-independent electrical circuits;.
4. To correctly apply these tools in time-dependent electrical circuits;.
5. To be familiar and be able to design RLC circuits.

Course Topic Outline:

I. Review of Electric Circuit Parameters
II. Resistive Circuits
III. Dependent Sources
IV. Analysis Methods
V. Network Theorems
VI. Independence of Equations
VII. Energy-Storage Elements
VIII. Simple RC and RL Circuits
IX. Second-Order Circuits

Course Text (Lecture):

David E. Johnson, Johnny R. Johnson, John L. Hilburn, & Peter D. Scott. **Electric Circuits Analysis**. 3rd edition (or newer). 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 Reqts	**Grading System**	
Long Exams	93 & above	**A**
Quizzes	87 – 92+	**B+**
Recitation	80 – 86+	**B**
Final Exam	73 – 79+	**C+**
	67 – 72	**C**
	60 – 66+	**D**
	below 60	**F**

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 absenses.
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 Instuctor: Jose Claro Monje
Consultation Hours: MWF: 10:30AM – 12:00N; TTH - by appointment

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I have read and understood the contents of this material, Elc 101.1 Syllabus. I also agree to be bound by the class policies stated herein.

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Signature over Printed Name Date