EXPANDED COURSE DESCRIPTION
ELECTRICAL ENGINEERING AND COMPUTER SCIENCE
Lassonde School of Engineering
Electrical Engineering Computer Science
LE / EECS 2200 3.0 SECTION E
ELECTRICAL CIRCUITS
FALL 2017 / WINTER 2018

Last Modified Date: 08/18/2017

COURSE CALENDAR DESCRIPTION

This course covers the basic principles of linear circuits. Kirchhoff’s laws, circuit equations, RL, RC, and RLC circuits, three-phase circuits, power analysis and power factor, and magnetically coupled circuits. Three lecture hours per week, three laboratory hours every other week. One term. Three credits. Prerequisites: General Prerequisite; SC/PHYS 1010 6.00 or SC/PHYS 1801 3.00. Course credit exclusions: SC/PHYS 3050 3.00. (NOTE: The General Prerequisite is a cumulative GPA of 4.50 or better over all major EECS courses. EECS courses with the second digit "5" are not major courses.)

INSTRUCTOR(S)

<table>
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<tr>
<th>Name</th>
<th>Section / Format / Term</th>
<th>Contact Email</th>
<th>Contact Phone</th>
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<tr>
<td>Hooshyar, Ali</td>
<td>Sec. E / LECT / F</td>
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LIST OF LEARNING OUTCOMES AND EXAMPLES OF

COURSE LEARNING OBJECTIVES

Upon satisfactory completion of this course, the student will be able to:

1. Analyze resistive circuits using basic laws (node and loops analysis, Thevenin, Norton's. superposition)
2. Determine the transient response of RC, RL, and RLC circuits
3. Analyze AC circuits in steady state using the phasor method
4. Use basic tools such as Matlab and SPICE for circuit analysis
5. Measure basic electrical signals using electronic measurement equipment in a lab setting

GRADED ASSESSMENT

The weight distribution of the course components is as follows:

- LAB 20%
- Quiz (3) 15%
- Midterm 25%
- Final 40%

ADDITIONAL INFORMATION

REQUIRED TEXTBOOK

You will require the following textbook for this course:
ACADEMIC INTEGRITY LINKS

- Senate Policy on Academic Honesty - http://secretariat-policies.info.yorku.ca/policies/academic-honesty-senate-policy-on/
- Academic Integrity - http://lassonde.yorku.ca/academic-integrity

STUDENT LINKS

- Student Rights and Responsibilities - http://oscr.students.uit.yorku.ca/student-conduct
- Religious Observance - https://w2prod.sis.yorku.ca/Apps/WebObjects/cdm.woa/wa/regobs
- Counselling and Disability Services - http://cds.info.yorku.ca/

Many courses utilize Moodle, York University's course website system. If your course is using Moodle, click here to access it.

Moodle @ York University