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.

Prerequisites: cumulative GPA of 4.50 or better over all major EECS courses (without second digit“5”); SC/PHYS 1010 6.00 or SC/PHYS 1801 3.00. Course credit exclusions: SC/PHYS 3050 3.00.

INSTRUCTOR(S)

<table>
<thead>
<tr>
<th>Name</th>
<th>Section / Format / Term</th>
<th>Contact Email</th>
<th>Contact Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kassiri, Hossein</td>
<td>Sec. E / LECT / F</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ADDITIONAL INFORMATION

COURSE WEBSITE

Mounted on Moodle:
- Course announcements
- Lab manuals and resources
- Assignments
- Links to online resources
- Course policies
- Grades
- Solution to tests and quizzes

COURSE LEARNING OUTCOMES

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

GRADE BREAKDOWN

Midterm - 25%
Final - 40%
Lab - 20%
Quiz (x4) - 20%

TEXTBOOK

Electric Circuits, Nilsson and Riedel - Either 10th or 11th edition works
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
• Academic Accommodation for Students with Disabilities - http://secretariat-policies.info.yorku.ca/policies/academic-accommodation-for-students-with-disabilities-policy/
• Student Accessibility Services (SAS) - https://accessibility.students.yorku.ca/
• York University’s Policies on Sexual Violence - http://secretariat-policies.info.yorku.ca/policies/sexual-violence-policy-on/
• York University’s Policies on Gender/LGBTQ*/Positive Space - http://rights.info.yorku.ca/lgbtq/

LAND ACKNOWLEDGEMENT
• We acknowledge our presence on the traditional territory of many Indigenous Nations. The area known as Tkaronto has been care taken by the Anishinabek Nation, the Haudenosaunee Confederacy, the Huron-Wendat, and the Métis. It is now home to many Indigenous Peoples. We acknowledge the current treaty holders, the Mississaugas of the New Credit First Nation. This territory is subject of the Dish With One Spoon Wampum Belt Covenant, an agreement to peaceably share and care for the Great Lakes region.
• The Indigenous Framework for York University: A Guide to Action can be found here: http://indigenous.info.yorku.ca/
• Meaning of a land acknowledgement: http://healthydebate.ca/opinions/indigenous-land-acknowledgements

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