Description: Transient analysis of electrical circuits and high order systems, complex frequency, and resonance phenomena. Operational amplifiers. Computer solution of circuits, electrical instruments, devices, and design for measurements in electrical networks.

Instructor: Dr. Rastko R. Selmic, Email: rselmic@latech.edu, Web: http://www.latech.edu/~rselmic/Courses/ Tel: 318-257-4641, Office: Nethken Hall 229.

Class Hours: MWF, 11:00am – 12:15pm, NH 153

Office Hours: MTWRF 8:00am – 10:00am or by appointment

Prerequisites: ENGR 221, and credit or registration in MATH 244, cumulative GPA>2.0 for MATH 240 through MATH 244.


Recommended Software: OrCAD Capture (PSPice) or Micro Cap 10 Evaluation software

Grading: There will be homework, two exams and final exam. If you have a question on grading of an assignment or an exam, please contact instructor about your question within one week of the time the grade is received. Here is weighting of grades:

- Homework and Participation in Class -- 15%
- Design Problems -- 15%
- Exam I -- 20% (closed book and notes), Friday, April 8
- Exam II -- 20% (closed book and notes), Friday, April 29
- Final Exam -- 30% (1 sheet one side), Monday, May 16

Scale used: A = 100-90%, B = 89-80%, C = 79-70%, D = 69-60%, F = below 60%.

Tests: All tests will be closed book and closed notes. You will be allowed to bring one sheet of notes (8.5” x 11”) one side for the final exam, and a calculator. Students will be required to clear the memory of the calculator prior to beginning the test. No make up exams unless approval is obtained prior to the scheduled test date.

Homework: Weekly homework will be assigned. Homework will be graded. No late homework will be accepted. Some homework may require computer
simulation.

Other Policy:

a. Class attendance is governed by university regulations published each year in the university bulletin (page 26).

b. In the event of the appeal, student is responsible for keeping all original graded materials (exams, homework, projects).