**General information for EC100**

Quarter: Spring 2021

Lecture timings: M/W 4pm to 6 pm

Instructor Office Hours Friday 11am to 12 noon

Instructor: Subramanian (Subu) S. Iyer [s.s.iyer@ucla.edu](mailto:s.s.iyer@ucla.edu)

Instructor’s Office: E IV, 66-147H

Classes: are On-line by zoom

Zoom link: <https://ucla.zoom.us/my/subuiyerzoomroom?pwd=cmxQc1pielBtY0RVUmFUbjlwRHB6UT09>

(students will need to be admitted by co-host so please try to log in early. Once class starts, we may not be able to admit you promptly)

**Textbook:** Allan R. Hambley “Electrical Engineering – Principles and Applications” 7th edition

**Teaching assistants**: K.T. Kannan ([kannankt@ucla.edu](mailto:kannankt@ucla.edu))

Steven Moran ([smoran1@ucla.edu](mailto:smoran1@ucla.edu))

**Syllabus:** This is an introductory electrical engineering course for students whose major is not Electrical engineering but who need a basic understanding of electrical engineering i.e., everyone!we will cover the basics of passive components, diodes, transistors and the essentials of circuit theory. We will go over dc and ac circuits, transient analysis, and stability criteria. We will cover logic and memory, digital and analog circuits. Finally we will cover operational amplifiers. After satisfactory completion of the course, you will have a good qualitative and quantitative understanding of electrical circuits and how to apply them.

**Evaluation:**

We will employ a combination of evaluation tools. The goal of evaluation is to help you learn and pace yourself. You will notice that no particular mode of evaluation dominates.

1. **In class “pop” quizzes**: Each class will end with a short quiz that will test your comprehension of what was taught in that class. These are expected to be completed in the last 5 minutes or so of the class. There will be approximately 20 such pop quizzes and the best 15 will count for 10% of your grade.
2. **Homeworks:** there will be approximately 10 homeworks. They will be assigned on Wednesday and will need to be returned by Saturday. These will count for 20% of your grade
3. **Quizzes:** there will be two quizzes after approximately 3 weeks and after approximately 8 weeks. They will cover all material covered till the time of the quiz. – these will count for 10% of your grade.
4. **Midterm exam**: this will be given approximately in the 5th week and will cover all the material covered till then. It will count for 20% of your grade.
5. **Final exam**: will count for 30% of your grade.