EEE6321 - Analog IC Design II

EEE6321 Analog IC Design 2 (ONLINE)

This course follows up on the topics discussed in Analog IC 1 and extends it to feedback, opamp types, switched-capacitor circuits, layout and matching, noise and other important aspects of IC design. We will continue to use Cadence® platform, an industry preferred simulation and layout engine. The course objective is to provide a thorough background of analog circuits, discuss the real world applications, IC design challenges and prepares students for other areas of analog and digital IC design. *If you plan to pursue career in IC design, either analog or digital, this course is “a must”, and it is recommended by ALL IC design companies.*

*Course Videos from years ago when i was young:*
https://ufedge.video.ufl.edu/Mediasite/Catalog/catalogs/spring-2020-eee6321

*Zoom Meeting Info:*
https://ufl.zoom.us/j/98386342155?pwd=dEFYcGNOZjhFTVVPb1RuV1B5T0s4dz09

*Class Times:*
- Mondays 9:30pm-10:30pm
- Wednesdays 9:30pm-10:30pm
- Fridays: Online Quiz

*Office Hours: with appointment only!*

*Pre-Reqs*
Analog IC 1 (or equivalent knowledge of the topic)

**If you have not taken these courses and still would like to enroll, please contact me.**

*Class location & dates:*

*Location:*
M,W | Period 3
(9:35 AM - 10:25 AM)
Time: TBD

Exams and office hours:
Midterm 1: TBD
Final Exam: TBA

Office hours:
Dr. Maghari: maghari@ece.ufl.edu Office Hours: TBD

Send an email to meet at any other time

Please put EE6321 in the subject of your email for any email correspondence.

Textbooks

Design of Analog CMOS Integrated Circuits (2nd edition)

(Highly recommended)

By B. Razavi

Publisher: McGraw-Hill Education; 2 edition (January 20, 2016)
ISBN-10: 0072524936
Link to Amazon (Links to an external site.)

Grading basis
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<tr>
<th>Assignment</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Homework &amp; Cadence</td>
<td>25%</td>
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<tr>
<td>Quiz</td>
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<tr>
<td>Midterm 1</td>
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<tr>
<td>Midterm 2</td>
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<tr>
<td>Extra Credit Quiz</td>
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<tr>
<td>Final Project (5320)</td>
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<td><strong>Total</strong></td>
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**About the instructor:**

Nima Maghari received the B.S. degree in electrical engineering from the University of Tehran, Iran, in 2004 and the Ph.D. degree in electrical engineering from Oregon State University in 2010.

He is currently an associate professor at the department of electrical and computer engineering, University of Florida, Gainesville. From 2004 to 2006, he was with IC-LAB, University of Tehran, where he was involved with audio delta-sigma converters and low-voltage bandgap references. In 2008 he was recipient of CICC-AMD outstanding student paper award. He is currently serving as an Associated Editor of IEEE Transactions on Circuits and Systems-I. He has published more than 50 conference and journals papers in IEEE and IEE.

His research interests include high performance analog-to-digital converters, delta-sigma modulators, phased-locked loops, synthesizable analog circuits, time-assisted data conversion techniques and low-power low-voltage regulators.