| Instructor | Dr. Jianshan Lin  
|            | NEB 559  
|            | 352-392-4929  
|            | jenshan@ufl.edu  
| When sending email, add [EEE6374] in the subject line. |
| Class Time and Room | T 7-8 (1:55-3:50pm) R 7 (1:55-2:45pm) @NEB 100  
| Office Hours | T 9 (4:00-5:00pm) W 7 (2:00-3:00pm) R 9 (3:00-4:00pm) @ NEB 559  
|            | EDGE students: contact by email jenshan@ufl.edu (preferred) or phone 352-392-4929  
| Teaching Assistant | TBD  
| Class Website | on E-Learning (Sakai) [http://lss.at.ufl.edu/](http://lss.at.ufl.edu/)  
| Textbooks | My own lecture notes, plus two recommended textbooks:  
|            | Recommended: [Pozar, Microwave and RF Design of Wireless Systems](http://www.lss.at.ufl.edu/EE6374)  
|            | Recommended: [Razavi, RF Microelectronics, 2/E](http://www.lss.at.ufl.edu/EE6374)  
| Objectives | The course objective is to let students learn:  
|            | - Overall picture of RFIC and wireless systems  
|            | - RFIC specifications and system specifications  
|            | - Transceiver architectures  
|            | - How to derive RFIC specifications from wireless communications standards  
|            | - Design and simulation of RF transceivers using EDA tools  
| Click the link to get more information about this course: [http://www.lin.ece.ufl.edu/?q=EEE6374](http://www.lin.ece.ufl.edu/?q=EEE6374)  
| Outline | RF Overview – Definition of RF and FCC Regulations  
|            | RF Propagation and Antennas  
|            | Wireless Standards, Digital Modulations  
|            | RF System-Level Specifications  
|            | Noise and Linearity in Receiver  
|            | RF Transceiver Architectures – Receiver and Transmitter  
|            | RF System Design EDA Tutorial  
|            | RFIC Specifications, Case Study  
|            | Emerging Applications  
|            | Overview of RFIC Technologies, Packaging, and System Integration  
|            | RF Testing – Spectrum Analyzer  
| Grading | Homework/Quiz: 25% (Late submitted homework will not be graded. Random in-class quizzes.)  
|            | Exam #1: 25% (tentative 2/11. EDGE students: schedule and complete the exam with your proctor within 5 days.)  
|            | Exam #2: 25% (tentative 3/31. EDGE students: schedule and complete the exam with your proctor within 5 days.)  
|            | Final Project Report and Presentation: 25% (Due 4/14. Assignment will be announced after Exam #1)  
|            | No Final Exam.  
|            | Exam makeups can only be scheduled before the exam with appropriate justifications and supporting documents.  
| Points to Letter Grade conversion: |  
|            | [90, 100] A  
|            | [86.67, 90) A-  
|            | [83.33, 86.67] B+  
|            | [80, 83.33) B  
|            | [76.67, 80) B-  
|            | [73.33, 76.67) C+  
|            | [70, 73.33) C  
|            | [66.67, 70) C-  
|            |
Note: In order to graduate, graduate students must have an overall GPA and an upper-division GPA of 3.0 or better (B or better). Note: a B- average is equivalent to a GPA of 2.67, and therefore, it does not satisfy this graduation requirement. For more information on grades and grading policies, please visit:
http://gradschool.ufl.edu/catalog/current-catalog/catalog-general-regulations.html#grades

<table>
<thead>
<tr>
<th>Academic Honesty</th>
<th>Follow UF Student Conduct &amp; Honor Code: <a href="https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/">https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Accommodations for Students with Disabilities</td>
<td>Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation</td>
</tr>
<tr>
<td>Special Classroom Rules</td>
<td>Cellular phones, pagers, and other electronic devices that may generate ring tones or sounds must be turned off during the class.</td>
</tr>
<tr>
<td>Software Use</td>
<td>All faculty, staff and student of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate. We, the members of the University of Florida community, pledge to uphold ourselves and our peers to the highest standards of honesty and integrity.</td>
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Updated November 18, 2015