

EE6240 RFICs

Note Title

29-07-2013

Textbooks :

- 1) RF microelectronics
Behzad Razavi
2nd Edition
- 2) The design of CMOS
RF integrated cks
Thomas H. Lee

www.ee.iitm.ac.in/vani/ee6240/

~ Lectures (40)

~ 1 mid-term (20%), final (40%) & projects (40%)

5-6 Hrs (10%)

* All Hws are due @ beginning of class

* All projects - due @ 11:59 pm on due date - only e-submission

* Pre-req. -

- 1) EE5390 Analog ICs
- 2) Analog cks - MOSFETs
- 3) Basic Signals & Systems

Topics

- RF basics,
- S-parameters, Resonance, impedance matching
- Inductors, caps, varactors
- Noise & Distortion
- Tx & Rx architectures
- LNA, Mixers & VCOs, PAs
- PLLs
- RF layout

RF

