## E157 Lecture 8 Day Plan

Any questions before quiz

Quiz + Team Quiz + Talk through solution

Design a L-match checking against <a href="https://www.smithchart.net">https://www.smithchart.net</a>

- 5Grad/s, RI=10 ohm
- Qdesired = sqrt(3)
- Lseries = 4nH, Cshunt = 8pF

Lab practice discussion – designing a match empirically.

Parasitics discussion - amplifiers have shunt C, and vias have series L

Matching networks with transmission lines - impedance cancellation, single stub

Tapped Capacitors, Tapped Inductors and Transformers

Design a T-match checking against <u>https://www.smithchart.net</u> – note compound Q=

Check-in, office hours