Tentative topics to be covered

1. Routing in Ad-Hoc networks
2. Medium Access Control
3. Descriptive material such as IEEE 802.11 and Bluetooth specifications
4. Multicast routing protocols
5. Flow and Congestion control for TCP
6. Network information theory (Gaussian channel, multiple access channels and capacity computations for wireless channel)
7. Self similar process and traffic analysis (Guest lecture by professor Roy)

Grading etc.
Students are expected to take up a research topic as course project. The max group size is 3. There will be group presentations as well.

Text
Main text will be Data Networks 2nd edition by Bertsekas and Gallager