Mobile Networks

Module B

IEEE 802.11 Radio Traces
Laptops use 802.11b cards, configured to 11Mbps

One laptop sends full data rate UDP packets to the other.

Oscilloscope closer to the receiver than to sender.
Try to interpret the various signal levels!
Oscilloscope traces: one flow
Experiment Setup - 2

- Now both laptops transmit to each other...
- Using UDP packets at full data rate.
Oscilloscope traces: two flows

Again: Try to interpret the various signal levels!
Oscilloscope traces: two flows
Oscilloscope traces: two flows

Here's a collision...
Oscilloscope traces: two flows

no ACK at the end of colliding packet transmission