Examination Feedback for EEE6430 – Mobile Networks and Low Level Protocols
Spring Semester 2011-12

Feedback for EEE6430 Session: 2011-2012

Feedback: Please write simple statements about how well students addressed the exam paper in general and each individual question in particular including common problems/mistakes and areas of concern in the boxes provided below. Increase row height if necessary.

General Comments:

Question 1:

(a) Bookwork.
(b) Some could remember burst structures better than multi-frame structures.
(c) A few managed to calculate the exact timings. Needed to know timeslot and (multi) frame epochs.
(d) Most differentiated between broadcast and point to point messaging.

Question 2:

(a) Most gave correct answers to the first three parts, but the power density from the first side lobe incident on a pedestrian's head was not achieved by many. Most forgot to subtract the side lobe attenuation from the main lobe gain.
(b) The elevation E-plane pattern was generally sketched correctly, but not the azimuth H-plane.
(c) Most got the idea about pedestrian's being safe, and about the main lobe firing into a first floor window, with varying degrees of supporting calculations.

Question 3:

(a) Bookwork.
(b) Some confused uplink and downlink bit rates.
(c) Needed to appreciate the 50% DTX duty cycle.

Question 4:

(a) Generally the textual descriptions were better than the diagrams of the RAKE receiver.
(b) Straightforward answers.
(c) Most confused the antenna pointing angles with the relative signal phase shift between the antennas. The angles $\phi_{A,B}$ were clearly described as antenna pointing directions.