## King Fahd University of Petroleum and Minerals College of Computer Sciences and Engineering Department of Computer Engineering

## **COE 341 – Data & Computer Communications (T081)**

## Essay Objectives & Deliverables:

- Every team of 4 students will read about one of the following topics, write a 6-page report, and make a 15 minutes presentation:
  - o Orthogonal Frequency-Division Multiple Access (OFDMA)
  - Wavelength Division Multiplexing (WDM)
  - o Multiple-Input and Multiple-Output (MIMO)
  - o Long Term Evolution (LTE) Wireless Technology
  - o Spread Spectrum
- Names of the team members and the topic's preference list (sorted from most preferred to least preferred) must be submitted by <u>Wednesday 19/11/2008 at 11:00</u> <u>AM</u>.
- The report is due on <u>Saturday 17/01/2009 at 11:00 AM</u>. The report should be 6 pages long, single column, 1.5 lines spacing, and 12-points Times New Roman font. The report should include:
  - o Explanation of the technology of the selected topic.
  - o How the technology of the selected topic works.
  - o Variations of the technology of the selected topic.
  - o How the technology of the selected topic differs from other similar technologies.
  - o Where the technology of the selected topic can be applied.
  - o Full set of references.
- The slides of the 15 minutes presentation are due on Wednesday 21/01/2009 at 11:00 AM.
- The 15 minutes presentation to be delivered on Week 15 (i.e. Saturday 24/01/2009 Wednesday 28/01/2009 at 11:00 AM). The presentation should be presented by 2 members of the team (i.e. each of the two members of the team should present for 6 minutes part of the whole presentation and leave 3 minutes for Q/A). All team members are expected to answer questions about the entire presentation.
- Both the report and the presentation slides must be the team's genuine effort.
  Plagiarism will NOT be tolerated.