

# Habib University

Course: EE 422 WIRELESS & MOBILE COMMUNICATIONS (Spring 2018)

20 Points

## Assignment # 1

Due date – 22 January (Monday) – hardcopy in class

### **Problem No 01 (Broadband Wireless Communications)**

The last 10-15 years have seen wireless technology being an enabler for wide variety of innovations. What was more interesting was the role wireless technology played in **“Applications other than the traditional Communications area”**.

*“Therefore, without reading any literature, imagine a wireless application (other than communications) that would be interesting and extremely valuable application around year 2030”.*

The answer should contain a one page (not to exceed one page) description of your wireless application that you think is interesting and valuable wireless application (other than communications) in future (2030).

**NOTE: Do not exceed the ONE page limit (250 words)**

### **Problems 2**

Kindly go through the uploaded paper **“The Evolution of Mobile Technologies - 2014”** (uploaded in the group) and supplementary lecture slides “1 G to 4 G”.

After studying the paper and supplementary lecture, write a two-page article on the **main features** and key differentiators of 1G, 2G, 3G and 4G standards. **NOTE: Do not exceed the two-page limit (500 words)**