The project work in this class requires the study of MIMO communication systems. Of particular interest are MIMO techniques extending methods discussed in class such as MIMO channel measurements and modeling, MIMO channel estimation, multi-user MIMO capacity analysis, MIMO OFDM, Iterative Decoding in MIMO systems etc. Students, working in groups of two, are required to pick a topic, and study it in depth. This involves understanding the signal processing issues involved, the techniques used, and their effectiveness. An independent verification of the results is also desirable. As part of the project, groups will be required to make a presentation of their findings, and submit a written report.

**Schedule:**

1. A proposal for the project is due no later than the sixth week of classes. The proposal should include the topic to be studied, and some relevant references (at least two journal papers). Early submission of the proposal is encouraged.

2. Project presentations will be held on the day of the final exam.

3. The Final report is due on the day of the final exam.