

## **1 Laboratory P4: High Level Function Implementation and Debugging**

This laboratory is devoted to coding and testing of the high level subroutine/functions planned during the P3 session.

### **1.1 Laboratory time line:**

1. Meeting between course director and each team to discuss P3 feedback and status.
2. Each team begins implementing their code.

### **1.2 Report requirements:**

Each team to submit a status report describing the progress for each of the sections. Wherever possible, include the results of test runs (screen shots or “print outs” of log files, etc) compared against expected or “correct” results.

The report should have the following format:

1. Use the list of modules from the table in your P3 report – provide any update to the functionality of the module and describe the development status.
2. As mentioned above provide results of any test runs and comparisons with known or “correct” results.
3. Provide source listings of the main routine and major functions.

A suggested goal for this week is (based on the accomplishment from P3 of determining the spacecraft in view) – to fully implement in the AOS/LOS table print out and then for a selected GPS satellite, output the pointing information in the requested format (i.e. as per the software specification). As always a comparison with a known correct test case should be performed.