

451-337 Satellite Positioning & Geodesy

Mid-Semester Test (Class Questions)

Explanation

The mid-semester test (worth 10% of the subject mark) is to be held on Wednesday 10th September at 14:15 in Alicy Hoy 316. The test will run for 1hr.

As part of the test at least one of the following class questions will be included.

1. What do the five subframes that make up the satellite message contain?
2. When can you use the **approximate** seven parameter transformation?
3. Explain the difference between coordinate conversion and coordinate transformation.
4. Describe what is meant by datum definition, and datum realisation.
5. Compare and contrast the ITRF and WGS84 datums.
6. Explain the importance of the seven-parameter transformation. Include in your answer the correct order for the application of the parameters.
7. Describe the use and importance of the broadcast ephemeris.
8. Provide a description of the P-Code, include in your answer the purpose and use of the P-code.
9. Describe the three types of coordinate systems used in geodesy.
10. List and explain the three segments of GPS.