

451-337 Satellite Positioning and Geodesy Practical Assignment 2 – Applications of GPS

Aim

The aim of this assignment is to familiarise students with the broad range of problems to which GPS technology can be applied.

Task

Students are to work in pairs to complete this assignment. Your task is to prepare and orally present a description of an application of GPS. You may choose an application from the list below or identify another application of your choice. You will be given eight minutes in which to make your presentation and five minutes for questions and discussion. Both members of the group are to participate in the preparation and the presentation process.

Each group must deal with a different application of GPS. You must therefore advise the lecturer of your choice as soon as possible. Allocation will be on a “first-come, first-served” basis.

Potential applications of GPS

- Machine guidance
- Precision agriculture
- In-car navigation
- Aerial photogrammetry
- Geodesy
- Asset mapping
- Topographic mapping
- Crustal monitoring
- Structural monitoring
- Engineering surveying
- Cadastral surveying
- Aircraft landing
- Mining
- GPS meteorology
- GPS timing
- Search and rescue
- Hydrographic surveying
- Recreational uses
- Pedestrian navigation
- Other.....

Submission details

Due : Class presentations will be made on **27 August 2008** and **03 September 2008**. Which groups present on which day will be decided by random ballot. Attendance at both sessions is compulsory. A 50% penalty will be applied for non-attendance.

Weight : 8%