

**451-337 Satellite Positioning and Geodesy**  
**Practical Assignment 4 – The Future of GNSS**

**Aim**

The aim of this assignment is to provide students with the opportunity to independently explore and report on current and future trends and developments in Global Navigation Satellite Systems.

**Background information**

Over the next few years there are many planned and emerging developments that will potentially impact dramatically on the practices, procedures and performance of satellite positioning. Examples of such developments include :

- The GPS modernisation program
- The advent of new satellite constellations such as the Russian *GLONASS* system, the European *Galileo* system and the Japanese Quasi-Zenith Satellite System (*QZSS*)
- The rapid expansion of Continuously Operating Reference Station (CORS) networks

**Task**

Imagine you have been asked by the CEO of a major engineering company to prepare a report (approximately 1500 words) assessing the available information regarding developments in GNSS and their likely impact on the diverse operations of the company.

Your task is to write that report.

Students are to work individually. No strict criteria for the content of the report will be imposed. It is up to the individual to decide what is important and relevant and to ensure that the report is factual, well-rounded, comprehensive and easy to read.

**Marking criteria**

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|------------------------------|-----|
| • Technical accuracy         | 25% |
| • Completeness               | 25% |
| • Quality of written English | 25% |
| • Quality of report          | 25% |

**Submission details**

Due : 8 October 2008

Weight : 8%