



**School of Engineering
Dept. of Geomatic Eng.**

**Assignment 1
GEE 4812 Principles of Geomatics**

Due Date: 14th July, 2021.

Submissions should ALL be in PDF, failure to do so attracts loss of 10%.

Question 1 [30 marks]

Using a table, differentiate between a carrier wave and a measuring wave in an EDM instrument.
[30]

Question 2 [50 marks]

Most EDMs are designed to use high frequency carrier waves. However, these waves are modulated with low frequency measuring waves.

- a) Define modulation in line with EDMs [10]
- b) Using a diagram, illustrate the difference between amplitude and frequency modulation. [40]

Due in a week's time (with effect from Wednesday, 07 July 2021)