**21ECC204T- Signal Processing**

**Case Study Question (unit 2)**

**Submission Date: 13.03.2024**

1. A time domain signal has an amplitude 1 unit for the time duration of +1 to +2 on the positive axis, further it has an amplitude of 2 units for the time duration -1 to -2 on the negative axis, Sketch the signal and determine its frequency domain equivalent using Fourier transform.

[10 marks]

1. Find the x(t) for the frequency spectrum: X (jΩ) is 1 for the range of -2 to 2 otherwise is zero.

[5 marks]