ES3C5: Signal Processing

Lab Assignment 3 Answer Template

Autumn 2021

[Your ID Number]

**[This document is an answer template for ES3C5 Lab Assignment 3. Please fill in your student ID above. Use this document to include your written answers to the corresponding questions in the lab assignment briefing. See the Briefing Sheet for full instructions. This block of text can be deleted before submission]**

# Q1

1. Answer in code file only (do not write anything here).
2. Answer in code file only (do not write anything here).
3. Answer in code file only (do not write anything here).
4. Answer in code file only (do not write anything here).
5. Insert labelled time domain plot here.
6. Insert labelled plot of FFTs here.
7. Based on the evidence that you have generated for this question, discuss the accuracy of the linear estimation. Limit your discussion to 10 lines of text, and consider the following: Are you confident in the accuracy of the model? How is this supported by your answers? What would be the single best way to improve the accuracy without collecting additional data?

# Q2

1. Answer in code file only (do not write anything here).
2. Briefly (in 2-3 sentences) explain your approach to construct Q2.Obs.
3. Answer in code file only (do not write anything here).
4. Answer in code file only (do not write anything here).
5. Answer in code file only (do not write anything here).
6. Insert labelled time domain plot here.
7. Answer in code file only (do not write anything here).