

EC3093D Digital Signal Processing Lab

Winter Semester 2023-24

Experiment-2: Sampling Theorem in Time Domain

General instructions

- The experiment is presented as five problems (PART I & II). Use Matlab for all problems.
- **The lab output evaluation will be based only on the solutions of PART I and II problems.** **Lab output** will be evaluated out of a *maximum* of 100 marks, and split-up is given alongside the problems.
- Also, three exercise questions are included as self-study topics which are not part of the lab sessions, but will be **considered during the lab report evaluation**.
- **Report** needs to be submitted (as one pdf file per group) via Eduserver (before deadline).
 - For each problem, report should cover
 1. the problem (copy from this document)
 2. the result depicted using necessary figure(s) with proper title, legends, axis labels etc with readable font sizes.
 3. a **brief** discussion of the results, highlighting only the salient/interesting points.
 4. A separate section should be devoted to the exercise questions.
- You need to be familiar with all the problems. **Experiment test will cover all problems.**