**Year 2 Semester 1 (2025)**

IT2120 - Probability and Statistics Lab Sheet 09

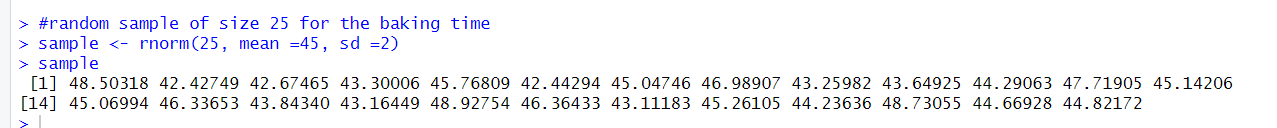


**FacultyofComputing**

## Exercise

**Instructions**: Create a folder in your desktop with your registration number (Eg: ”IT.......”). You need to save the R script file and take screenshots of the command prompt with answers and save it in a word document inside the folder. Save both R script file and word document with your registration number (Eg: ”IT........”). After you finish the exercise, zip the folder and upload the zip file to the submission link.

1. Assume that the time taken to bake a batch of cookies is normally distributed with mean 45 minutes and standard deviation 2 minutes.

1. Generate a random sample of size 25 for the baking time.
2. A screenshot of a computer

   AI-generated content may be incorrect.Test whether the average baking time is less than 46 minutes at a 5% level of significance.