*Heaven’s light is our guide.*

****Rajshahi University of Engineering and Technology**

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**Department of Electrical & Electronic Engineering**

**Course no.** EEE 4108

**Course title:** Digital Signal Processing Sessional

**Experiment no.** 3

**Experiment name:**

**3.1** s1 and s2 are two separate given signals. And s3=s1+s2, plot the Fast Fourier Transform (FFT) of s1, s2 and s3.

**3.2** s4=s3+ random noise, write a python code to remove the random noise from s4 using FFT analysis.

**3.3** denoise the signal s4 by designing a filter (Butter-worth filter) using python code

**Date of experiment:** May 20, 2023

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