Final Project

1. Each student, by the order in the class list, processing the EEG data upload in file tab in the Teams class.
2. Requirements

+ Read the package data

+ Extract the channels data

+ Plot the original data in time-series with the full of title, units

+ Analyze the data to identify signal and noises

+ Design filters to eliminate the DC component, Electricity noise, and others (if contaminated)

+ Apply the filters to the data to reduce the noises and increase the SNR (signal to noise ratio) as well. Show the noise reduction and SNR increasing values

+ Show the difference between the original data and processed data in both time domain and frequency domain

+ Design spectrogram for each data channels with frequency resolution of 1 Hz

1. Write report
2. Present the works in steps, algorithms (if applicable), purposes, and goals
3. Show the parameters for the design jobs, explain the reason to choose that parameters.
4. Show each results and discuss about the results