



UNITED INTERNATIONAL UNIVERSITY (UIU)
Dept. of Electrical & Electronic Engineering (EEE)
EEE 3308: Communication Laboratory

Project (Groupwise)

Communications Laboratory

Trimester: 243

Project task: Prepare a 10 minute presentation on BPSK, implementing both EMONA board and MATLAB Simulink

Task breakdown:

- a) Read the lab sheet on BPSK.
- b) Research online material on BPSK, ensuring that each member understands the whole concept.
- c) Conduct the whole experiment shown in lab sheet, completing each and every part. Take photo of wiring, picoscope output waveform.
- d) Watch the video "<https://youtu.be/WUb13pv4buw?si=CMAWQaD5LWyn66Vs>"
- e) Using help from the video, recreate the experiment you have done in EMONA on to MATLAB Simulink. Remember, parameter data should be same as that in lab sheet, not youtube video.
- f) Take screenshot of Simulink schematic, and the output waveforms.

Once you are done with the above steps, create a Powerpoint presentation. The first part of the presentation should include theory. Include block diagrams and mathematical understanding. Then include pictures of your wiring and picoscope waveform, **with explanations of each photo**. Finally, paste your Simulink schematic and results **with explanations**.

Note that:

- Presentation is to be in English, and your eloquence will be judged.
- Each member has to talk for approximately 2 minutes.
- At the end of the presentation, the examiner will conduct a viva session and further marks has been allotted to viva.

