Experiment #5 – Amplitude Modulation

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# EEE3352 Signal Analysis and Analog Communications

Section 0012

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# **Project Description**

The objective of this experiment is to introduce and explain the trigonometric and exponential Fourier series to the students and to understand the relationship between time waveforms and frequency spectra.

# **2.0 About Laboratory Day and Equipment List**

# The laboratory session took place on the Tuesday section between 8:00am and 11:00am on October 10, 2023. My lab partners were Joahn. The equipment for the is experiment is listed below,

1. USB Flash Drive
2. Rohde & Schwarz RTM 3034 Oscilloscope
3. Tektronix AFG3022 Function Generator
4. TL084 Operational Amplifier

# **3.0 Pre-Laboratory Preparation**

# **4.0 Experimental Procedure**

# **5.0 Learned Objectives**

* Understanding the Basics of Low Pass Filters
* Practical Application of Fourier Series
* Analysis of Filter Behavior
* Problem-Solving and Troubleshooting

# **6.0 Conclusion**