# ROBOTICS AND COMMUNICATIONS SYSTEMS ENGINEERING TECHNOLGY PUSH-PULL AMPLIFIERS LAB 3RD SEMESTER, SR. INSTRUCTOR TIM LEISHMAN

## **General Objective:**

Upon completion of this lab, the student will be able to:

- A. Calculate voltages, currents, gains, and impedances of Push-Pull amplifier circuits.
- B. Construct, measure, and demonstrate the proper use of the test equipment.

#### **References:**

- Theory notes
- First Year Text & Lab books

### **Check-Off Sheet:**

• Check-Off Sheet

## **Specific Objectives:**

- 1. Push-Pull Amplifier
  - a. Design a Push-Pull circuit to accept Vin from the variable gain Diff-Amp from your previous lab.
     Your Push-Pull will be designed to drive a 5-watt, 8-ohm speaker.
  - b. Show all calculations.
  - c. Instructor Check
  - d. Using an equivalent load resistor, measure gain and frequency response of the amplifier.
  - e. Instructor Check
  - f. Functionally test the circuit using an instructor issued speaker
  - g. Instructor Check
- 2. Complete Conclusion and submit completed Check-Off sheet and Lab writeup in Moodle.

