

## AMERICAN INTERNATIONAL UNIVERSITY-BANGLADESH (AIUB)

Faculty of Engineering

Bachelor of Science in Electrical and Electronic Engineering (EEE) BAE 2101: Computer Aided Design and Drafting

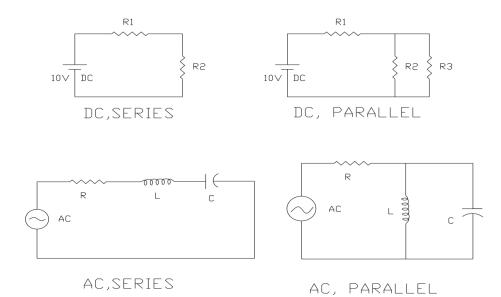
**Experiment # 05:** Introducing with Electrical Symbols used for Electrical Circuit Design and drawing some Electrical Circuits using AutoCAD.

**Objective:** To familiarize students with Electrical Symbols used for Electrical Circuit Design and draw some Electrical Circuits using AutoCAD software.

## **List of Electrical Symbols**

Direct Current	
Alternating Current	
Resistor	
Non-reactive Resistor	R
Impedance	Z
Inductor	
Winding	
Capacitor —	
Earth	
Line or cable: existing	
planned	
Underground Cable	

## **ELECTRICAL CIRCUIT DESIGN**



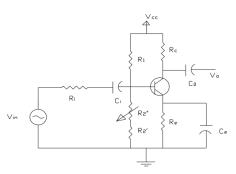


Figure: Common Emitter Amplifier Circuit

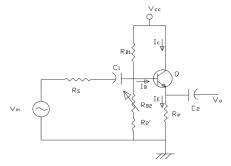


Figure: Common Collector Amplifier Circuit

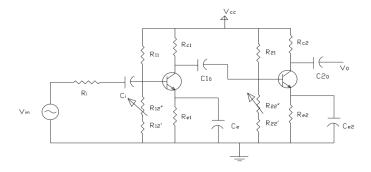
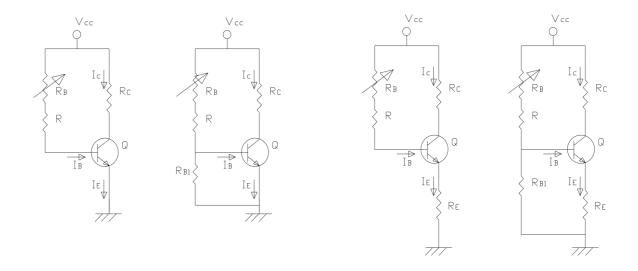
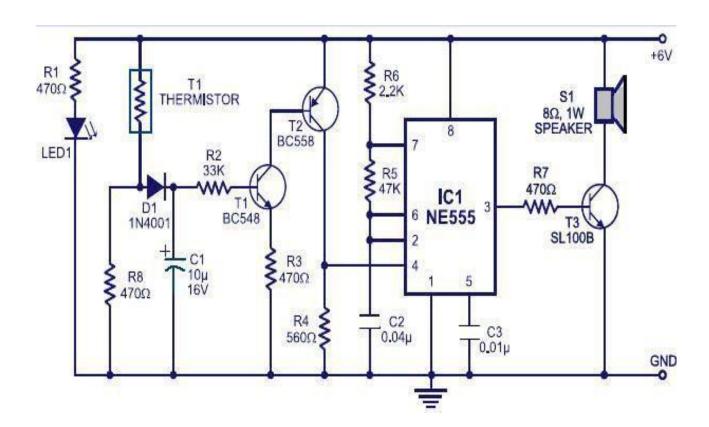


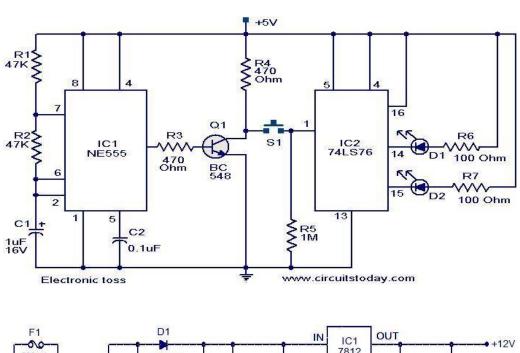
Figure: RC coupled two stage Amplifier Circuit

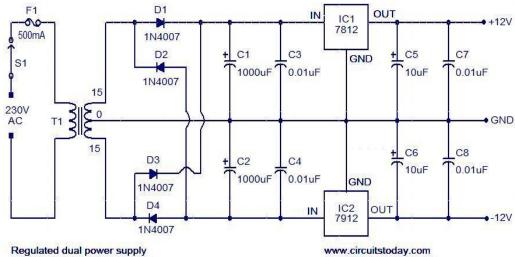


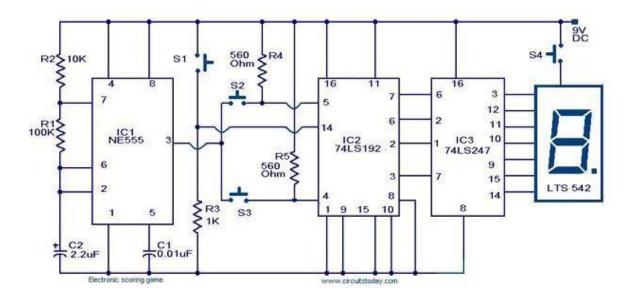
Fixed Bias Circuit

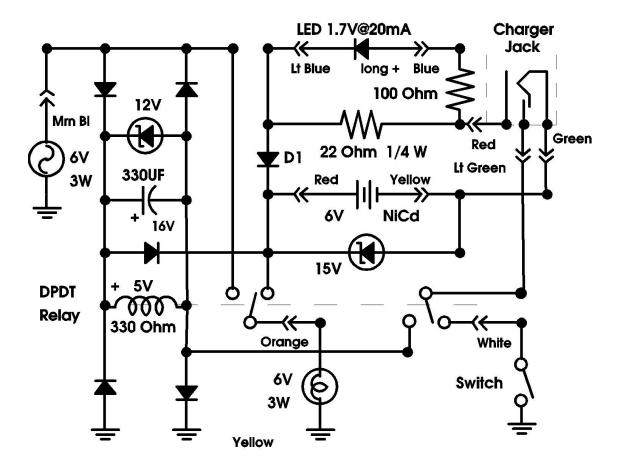
Self Bias Circuit











## **References:**

- 1. Kristen S. Kurland, "AutoCAD 2004, 2D Training Manual".
- 2. Bob McFarlane, "Beginning AutoCAD 2004"
- 3. David Byrnes and Mark Mi