

AMERICAN INTERNATIONAL UNIVERSITY-BANGLADESH (AIUB)

Faculty of Engineering

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

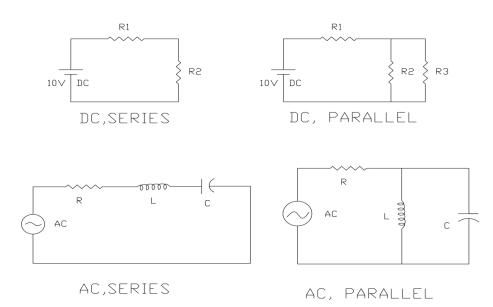
Experiment # 05: Introducing with Electrical Symbols used for Electrical Circuit Design and drawing some Electrical Circuits using AutoCAD.

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	
D	
Resistor	
Non-reactive Resistor	
Impedance	Z
Inductor	
Winding	
Capacitor —	
Earth	
Line or cable: existing	
planned	
Underground Cable	

ELECTRICAL CIRCUIT DESIGN



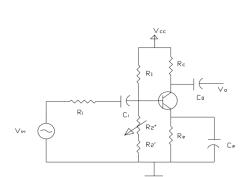


Figure: Common Emitter Amplifier Circuit

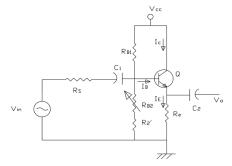


Figure: Common Collector Amplifier Circuit

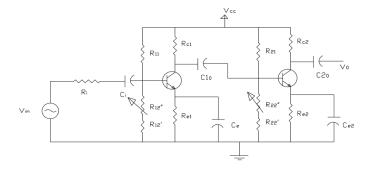
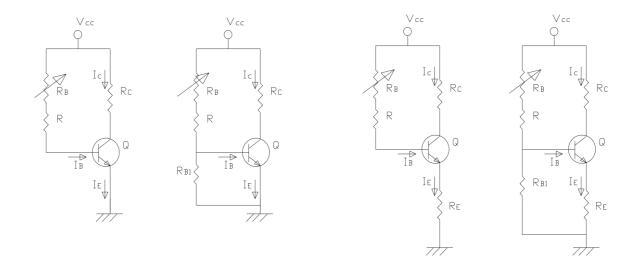
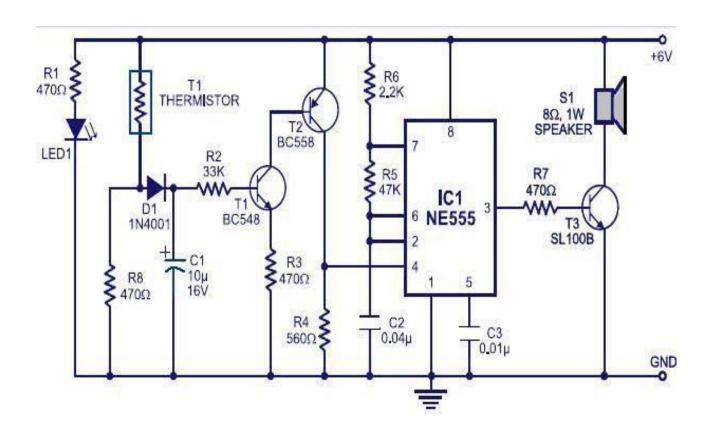


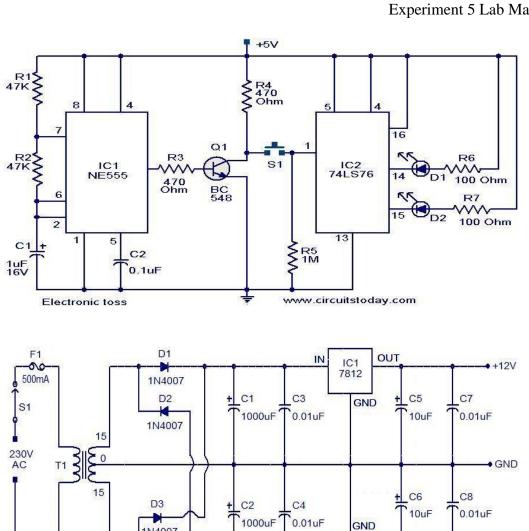
Figure: RC coupled two stage Amplifier Circuit



Fixed Bias Circuit

Self Bias Circuit





Regulated dual power supply

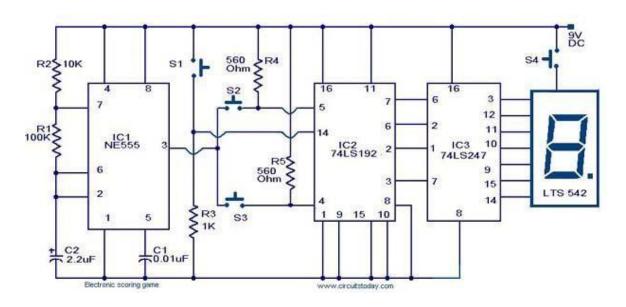
www.circuitstoday.com

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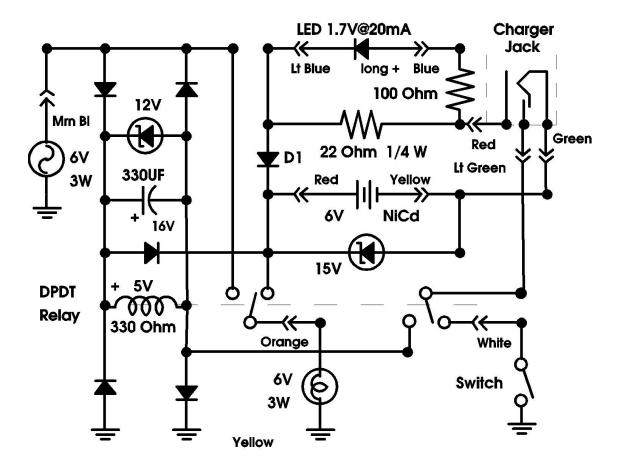
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References:

- 1. Kristen S. Kurland, "AutoCAD 2004, 2D Training Manual".
- 2. Bob McFarlane, "Beginning AutoCAD 2004"
- 3. David Byrnes_and Mark Middlebrook, "AutoCAD 2007 For Dummies".