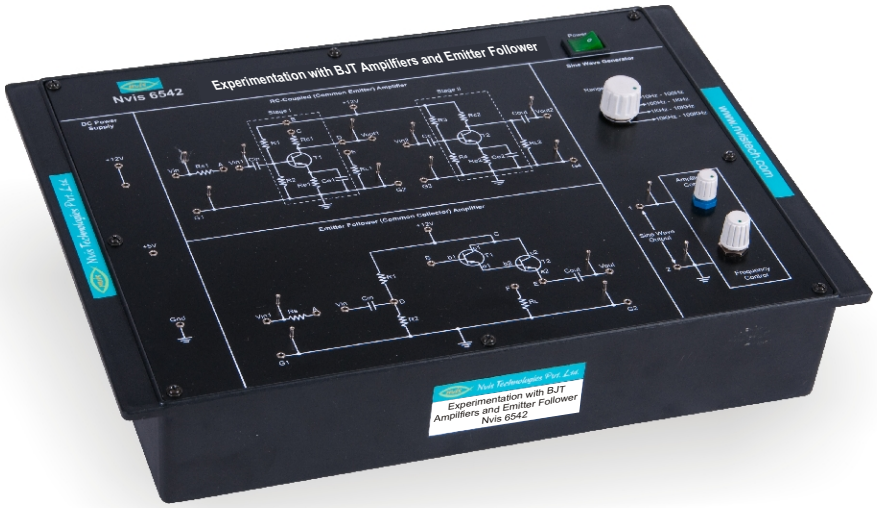
# Experimentation with BJT Ampilfiers and Emitter Follower

Nvis 6542




**Nvis 6542 BJT Experimentation with Amplifiers and Emitter follower** is a unique product designed to explain the role of BJTs as Single Stage/Multistage RC-coupled Amplifiers and as a Common Collector Emitter Followers.

One of the most common method for coupling two stages of an amplifier is RC-coupling. RC-coupled amplifiers have the advantage of wide frequency response and a relatively small cost and size. Darlington Transistors are circuits that combine two bipolar transistors in a single device such that high Current Gain (b) is obtained and lesser space is required than that used by two discrete transistors.

Nvis 6542 is useful for students In plotting the Frequency vs. Gain Response of BJTs and in the measurement of parameters such as Bandwidth, Input Impedance etc.

## Features

- **Easy illustration of Multistage Amplifier and Emitter Follower**
- **In built Sine Wave Generator with variable frequency and amplitude**
- **In built DC power supply**
- **Online product tutorial**

## Scope of Learning

- To study the operation of single stage and multi stage RC–Coupled amplifier
- To plot the frequency response of RC–Coupled amplifier
- To calculate the current gain and input impedance of Darlington pair and b of a transistor
- To calculate the voltage gain of Darlington pair using voltage dividerbiasing

## Technical Specifications

| | |
|---|---|
| **DC power supply** | : +12V, +5V |
| **Fuse** | : 500mA, slow blow |
| **Sine wave generator** | |
| Frequency | : 10Hz - 100kHz ±10% |
| Amplitude | : 0 to 5Vpp |
| **Mains supply** | : 230V ±10%, 50Hz |
| **Dimensions (mm)** | : W 240 x D 345 x H 110 |

Subject to change - Version 2.0

Designed and Manufactured in India by -

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