**Nvis 6504 Experimentation with Active Filters** is a remarkable and frequently used laboratory equipment which is designed to explain basic fundamentals of filter design and their working. Electronic filters are electronic circuits which perform signal processing functions, specifically intended to remove unwanted signal components and/or enhance wanted ones.

## Features

- A low cost trainer demonstrating all the basic concepts of Active Filters

- Exclusive presentation and easy illustration of each part of the Filter Circuit

- Designed with considering all the Safety Standards

- Provided with inbuilt Function Generator

- Provided with inbuilt Power Supply

- Selectable frequency range of Function Generator

- Manual creation of Band Pass Filter using high pass and low pass filter

- Twin-T Notch Filter with Quality Factor adjust

## Scope of Learning

- Study of Active Low Pass Filter and to Evaluate:

  a   High cutoff frequency of Low Pass Filter

  b   Pass band gain of Low Pass Filter

  c   Plot the frequency response of Low Pass Filter

- Study of Active High Pass Filter and to Evaluate:

  a   Low cutoff frequency of High Pass Filter

  b   Pass band gain of High Pass Filter

  c   Plot the frequency response of High Pass Filter

- Study of Active Band Pass Filter and to Evaluate:

  a   Low cutoff and High cut off frequency of Band Pass Filter

  b   Pass band gain of Band Pass Filter

  c   Plot the frequency response of Band Pass Filter

- Study of Narrow Reject T-Notch Filter and to Evaluate:

  a   Notch-out frequency of T-Notch Filter

  b   Plot the frequency response of T-Notch Filter

## Technical Specifications

**Function generator**

Frequency range of Function Generator : Selectable

|  |  |
|---|---|
| : | 1Hz to 10Hz |
| : | 10Hz to 100Hz |
| : | 100Hz to 1kHz |
| : | 1KHz to 10 kHz |
| : | 10kHz to 100kHz |

**Amplitude controlled output**

Active Filter

|  |  |
|---|---|
| : | Accurate frequency response |
| : | Variable Cutoff Frequencies |
| : | Adjustable Gain of output |

| | | |
|---|---|---|
| **Power Supply** | : | 230V ±10%, 50Hz |
| **Fuse** | : | 350mA |
| **Package contains** | **:** | 2mm Patch Cord 8"-15 nos. |
| | | 2. Mains Cord -1 no. |