



**Nvis 6508 Experimentation with Zener Diode Voltage Regulator** has been designed specifically for the study of regulated power supply based on zener diode. As zener diode is generally employed in a standard circuit as a voltage regulator, it is very useful for students to study the operation of zener diode as a voltage regulator with the variation in source voltage and load resistance. This training board is provided with different sections of a regulated power supply i.e. step-down transformer, bridge rectifier, capacitive filter and voltage regulator.

### Features

- Provided with different sections of a regulated power supply
- Good quality, reliable sockets and test points are provided
- Strongly supported by systematic operating instructions and theoretical details
- A low cost training system
- Online product tutorial

### Scope of Learning

- Study of Zener Diode as a Voltage Regulator, when input voltage,  $V_{in}$  is fixed while load resistance  $R_L$  is variable
- Study of Zener Diode as a Voltage Regulator, when input voltage,  $V_{in}$  is variable while load resistance  $R_L$  is fixed

### Technical Specifications

Transformer	: 0 - 9V, 500mA (approximate)
Filter	: Capacitive 1000 $\mu$ F, 35V
Zener Diode	: $V_z = 5.6V$ $I_{ZM} = 178mA$
Potentiometer, P1	: 4.7kW
Potentiometer, P2	: 4.7kW
Mains Supply	: 230V $\pm$ 10%, 50Hz
Dimensions (mm)	: W 250 x D 150 x H 80
Weight	: 600g (approximate)