

# **IT.BE2015**

## **Basic Electricity & Electronic Trainer**



## ALL ELECTRONIC CIRCUITS TRAINERS

- ▼ Basic Electronic Circuits Trainer
- Basic Electricity and Electronic Trainer
- Digital Logic Circuits Trainer
- ✔ Advanced Digital Logic Circuits Trainer
- Electronic Circuits Trainer
- Practical Electronic Circuits Trainer
- Power Supply Circuits Trainer
- ✔ Industrial Electronics Circuits Trainer

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## **Basic Electricity and Electronic Trainer**

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DC Source, Switches, Ohm's Law,

# BE2015

DESCRIPTION

### **Curriculum Outlines:**

- Design and implementation of DC source, switches, ohm's law, voltage divider.
- Design and implementation of series, parallel, seriesparallel resistive circuits.
- Design and implementation of DC and AC circuits for basic electricity and electronics.
- Understanding the kirchhoff's Law, Thevenin's theorem, Norton's theorem.
- Understanding the Fieming's rule, Ampere's law, Faraday's law.

### FEATURES

- **Curriculum Objectives:**
- Understanding the basic theory and application of basic electricity and electronics
- Suitable for both engineer and the relative electronic student.

#### Voltage Divider DC Source, Experiment 1: Introduction to DC Switches, Sources Ohm's Law, **Experiment 2: Introduction to Switches** Voltage Divider Experiment 3: Learning about Ohm's Law Experiment 4: Learning about Voltage Divider Series, Parallel, Series-Parallel Resistive 2 Circuits Series, Parallel, **Experiment 1: Sefies Resistive Circuits** Series-Parallel Experiment 2: Parallel Resistive Circuits Resistive **Experiment 3: Series-Parallel Resistive** Circuits Circuits DC Circuits for Basic Electricity and 3 Electronics **DC Circuits for** Experiment 1: To Know Superposition Basic Theorem Electricity and **Electronics** Experiment 2: To Understand . $\Delta$ . and Y Transform **Experiment 3: To Know Dependent** Source Experiment 4: To Know Wheatstone Bridge 4 AC Circuits for Basic Electricity and Electronics AC Circuits for Basic **Experiment 1: RC Series Circuits** Electricity and **Experiment 2: RL Series Circuits Electronics Experiment 3: LC Series Resonance Experiment 4: LC Parallel Resonance** Experiment 5: RLC Filter Circuits -

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Kirchhoff's Law, Thevenin's Theorem, Norton's Theorem Circuits Experiment 1: Learning about Kirchhoff's Current Law Experiment 2: Learning about Kirchhoff's Valtage Law Experiment 3: Learning about Thevenin's Theorem and Norton's Theorem Experiment 4: Learning about Node Valtage and Mesh Current	5 Kirchhoff's Law, Thevenin's Theorem, Norton's Theorem Circuits	
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Experiment 2: Faraday's Law of Electromagnetic Induction	Law	
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Experiment 2: Zener Diode Characteristics Circuit	Electronics	
Experiment 3: BJT Basic Application Circuits		Viio 2
Experiment 4: OPA Basic Application Circuits		

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