Basic Electricity & Electronic Trainer

ALL ELECTRONIC CIRCUITS TRAINERS

v Basic Electronic Circuits Trainer

v **Basic Electricity and Electronic Trainer**

v Digital Logic Circuits Trainer

v Advanced Digital Logic Circuits Trainer

v Electronic Circuits Trainer

v Practical Electronic Circuits Trainer

v Power Supply Circuits Trainer

v Industrial Electronics Circuits Trainer

BE2015

DESCRIPTION

Curriculum Outlines:

· Design and implementation of DC source, switches, ohm's law, voltage divider.

· Design and implementation of series, parallel, series-parallel 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.

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

CE

BE2015

DESCRIPTION

Curriculum Outlines:

· Design and implementation of DC source, switches, ohm's law, voltage divider.

· Design and implementation of series, parallel, series-parallel 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.

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	
Magnetic Field and Ampere's Law Experiment 1: Magnetic Reed Sensor Circuit Experiment 2: Magnetic Relay Circuit Experiment 3: Magnetic Hall Effect Sensor Circuit Experiment 4: Ampere's Law Application Circuit	6 Magnetic Field and Ampere's Law	
Fleming's Rule and Faraday's Law Experiment 1: Fleming's Rule of Electromagnetic Induction Experiment 2: Faraday's Law of Electromagnetic Induction	7 Fleming's Rule and Faraday's Law	
Semiconductors for Basic Electricity and Electronics Experiment 1: Diode Characteristics Circuits Experiment 2: Zener Diode Characteristics Circuit Experiment 3: BJT Basic Application Circuits Experiment 4: OPA Basic Application Circuits	8 Semiconductors for Basic Electricity and Electronics	