



Wind Energy Trainer is a versatile training setup used in the laboratories to understand the conversion of wind energy into electrical supply. It introduces the basic concept of wind turbine, of converting kinetic energy of wind into mechanical energy and then this mechanical energy into electrical energy. The setup works as a live demonstration unit of wind turbine and generator in terms of its concepts and applications. It is provided with a Wind Turbine Setup and a Training Board.

- Complete setup to study the fundamentals of wind based DC power generator
- Measurement and Application Modes
- On board voltmeter and ammeter are provided
- Charging the batteries using wind energy as the generator of DC supply
- Portable and light weight
- Strongly supported by systematic operating instructions with theoretical and practical details
- 2 Year Warranty

Technical Specifications

Wind Turbine Setup	: Contain 3 blades
Maximum Open Circuit Voltage	: 3 V
Maximum Short Circuit Current	: 250 mA
Voltmeter	: 0-10 V
Ammeter	: 0-500 mA
Potentiometer	: 5 KO
1 AA Rechargeable	: 1.2 V
NiCd Battery	
Lamp	: 1.2 V, 250 mA
Fan	: 1.5 V, 250 mA
FM Band Radio	: 3 V

Scope of Learning

- Calculation of voltage and current of wind energy based DC supply with change in shape of blades.
- Calculation of voltage and current of wind energy based DC supply with change in angle of blades.
- Calculation of voltage and current of wind energy based DC supply with change in direction of wind.
- Calculation of voltage and current of wind energy based DC supply with change in wind pressure.
- Application of wind energy based DC supply in domestic purposes :
 - a. Charging of batteries both on load and no load conditions.
 - b. Operating lamp, fan and radio.

Note: Specifications are subject to change.

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