

**Product Name :**  
Interactive DC machines Kit**Product Code :**  
NEE -18-06-18-0134**Description :**

Interactive DC machines Kit

**Technical Specification :**

Minimum Technical Specifications Required (like or better than):

- Experiment Module with open, 2-pole stator and 2 exciter windings, temperature sensor with voltage source, starting and load resistors • Rotor with adjustable brushes
- Stroboscope with extra-bright LED
- Interactive Software

The Kit Should Cover the Following Training Contents

- Electromagnetic induction, Lorentz force
- Motor, generator

- Magnetic fields
- Components and design of DC machines
- Commutator, carbon brushes
- Series-wound, shunt-wound and compound-wound windings
- Brush shifting (lead)
- Commutating field and compensation windings
- Measurements of the armature and exciter current and voltage
- Universal motor
- Operation with alternating voltage
- Rated data, rating plate
- Adjusting rotation speed
- Reversing rotation direction
- Field weakening
- Armature and field resistors

Speed measurement using a stroboscope

## Electrical and Electronics

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