

**COURSE TITLE: APPLIED ELECTRICITY I**

**COURSE CODE: ELE 201**

**COURSE UNIT: 02**

**COURSE LECTURER: DR. ADEJUMOBI LA. AND ENGR. OYAGBINRIN S.G.**

## **LECTURE 1**

### **1.0 INTRODUCTION**

#### **1.1 Units and Dimension**

The SI system is the approved abbreviation for international system of unit (Systeme Internationale d'unités). The size physical or fundamental quantities selected as the basic unit of SI system are:

- Length (meter, m)
- Time (second, s)
- Mass (kilogramme, kg)
- Electric current (Ampere, A)
- Temperature (Kelvin, K)
- Luminous intensity (Candela, cd)

Other derived units from the basic physical quantities are derived physical quantities, some which include:

- Area ( meter square)
- Volume (meter cube)
- Velocity (meter per sec)
- Acceleration (meter per sec sq)
- Angular velocity (rad per sec)

#### **1.2 Dimensions**

All other mechanical quantities may be expressed in terms of the three basic quantities (mass, length and time) raise to the appropriate powers, which may be either positive or negative and which are termed the dimensions of the derived quantities.

For example, the dimension of the velocity is  $[LT^{-1}]$ , that of acceleration is  $[LT^{-2}]$  and so on.

#### **Solve Problem 1**

Obtain the dimension of the following quantities:

- Force
- Momentum
- Charge
- Power
- Potential difference

# Applied Electronic A First Course In Ele

**Albert A Gayle**



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