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## Elementary Electrical Engineering MODULES

### I. Introduction:

#### ENGINEERING ESSENTIALS:

Electrical engineering is a technical discipline concerned with the study, design, and application of electricity! Through electrical engineering, we can design devices and systems using electrical components such as resistors, capacitors, transistors, etc. Electrical Engineers can design and work on items such as super low power microcontrollers, PCB Design, high power turbines, navigation systems, etc.

### II. *What are the basics of electrical engineering?*

- Voltage, current, resistance and Ohm's Law

These are the three basic building blocks required to manipulate and utilize electricity. With a constant voltage source, we can see how current and resistance change. With a high resistance, there will be very low current flowing through the load.

### III. *Metric Prefixes & International System of Units (SI Units):*

- When you're getting into electrical engineering, it's important to know common electronic units and prefixes.

| Quantity        | SI Unit | Abbreviation |
|-----------------|---------|--------------|
| Voltage         | volts   | V            |
| Current         | ampere  | A            |
| Power           | watt    | W            |
| Energy          | joule   | J            |
| Electric charge | coulomb | C            |
| Resistance      | ohm     | Ω            |
| Capacitance     | farad   | F            |
| Inductance      | henry   | H            |
| Frequency       | hertz   | Hz           |

# Electrical Engineering Modules For N1 At Letaba

**Frank SHAW (Electrical Engineer.)**



## **Electrical Engineering Modules For N1 At Letaba:**

*Annual Report of the Department of Education* Gazankulu (South Africa). Department of Education, 1986     *IEEE Membership Directory* Institute of Electrical and Electronics Engineers, 1979     *Construction in Southern Africa* , 1981  
**Northern Province** , 1997     *Outcomes Based Studies for Electrical Engineering* André Blignaut, 1998     *Electrical Engineering. A First Year Course ... Illustrated* Frank SHAW (Electrical Engineer.), 1914     **Advanced Courses in Electrical Engineering** Sir Willis Jackson, 1950     **Courses for technician engineers in electrical engineering** Witwatersrand Technical College, 1979     **Courses in Electrical Engineering and Physics** Massachusetts Institute of Technology, 1898     **Electrical Engineering** Ernst Julius Berg, 2019     *Fundamentals of Electrical Engineering* M. Kuznecov, 1980     *Basic Electrical Engineering* , 2015     **Electrical Engineering for Electric Light Artisans and Students** Sir William Slingo, Arthur Brooker, 1903     **EE 215, Introduction to Electrical Engineering** United States. Department of the Air Force, 1994\*     *Electrical Engineering for Electric Light Artizans and Students* Sir William Slingo, Arthur Brooker, 1893     *Basic Electrical Engineering (As Per Vtu Syllabus)* C.L. Wadhwa, 2007-01-01     *Basic Electrical Engineering* Mithal G K, 1998     **Specialisation** \The \Engineering Industry Training Board, 1975  
*Fundamentals of Electrical Engineering and Electronics* B. L. Theraja, 1984     **Mastering Electrical Engineering** Noel Malcolm Morris, 1991

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In some sort of taken by displays and the ceaseless chatter of instantaneous interaction, the melodic elegance and mental symphony developed by the written term usually diminish in to the background, eclipsed by the constant sound and distractions that permeate our lives. Nevertheless, located within the pages of **Electrical Engineering Modules For N1 At Letaba** a marvelous literary value full of organic emotions, lies an immersive symphony waiting to be embraced. Constructed by an outstanding composer of language, that fascinating masterpiece conducts visitors on a psychological trip, skillfully unraveling the hidden songs and profound influence resonating within each carefully crafted phrase. Within the depths of this touching evaluation, we shall investigate the book is central harmonies, analyze its enthralling publishing style, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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