



**101**                    **Construction Science**  
Course No.      Descriptive Title

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**Course Content:**

ELECTRICAL PRINCIPLES (from Chapter 14 ( 14.1 - 14.15) of Mechanical and Electrical Equipment for Buildings)

1. Electric energy, units of measurement
2. Direct Current & Alternating current
3. Electrical Circuits & demand
4. Energy management systems

**Required Textbooks and Materials:**

1. Elementary Structures for Architects and Builders, by R.E. Schaffer.
2. Mechanical and Electrical Equipment for Buildings, by Stein/Reynolds/McGuinness.

**Testing:**

1. Emphasis in testing will be on the problem solving abilities of the student.