

## Electrical Engineering

<b>Course Code: EE-103</b>	<b>Credit Hrs: 2-0</b>
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### **Text Books:**

1. Electric Circuits Fundamentals, Sergio Franco, OUP.
2. Electrical Power Technology 6th Edition by Theodore Wildi. Prentice Hall.
3. Electric Machinery Fundamentals 4th Edition, PBy S. Chapman McGraw.
4. Electric Circuits, Basic Electricity by Schaum's Series.

### **Course Outline:**

1. Principles of Electromagnetism
2. Series and Parallel Circuits
3. Network Theorems
4. Alternating Current
5. RL/RC/RLC Circuits
6. Semiconductor Theory and Electronics Fundamentals
7. Diodes and its Applications
8. Bipolar Junction Transistors
9. Introduction to Microprocessors and Microcontrollers
10. Introduction to electrical machines

### **Assessments:**

Quizzes, Assignments, Mid Exam, Final Exam