|  |  |  |
| --- | --- | --- |
| **Course-7 Title: Basic Electrical Engineering Sessional** | |  |
| Course No.: EEE 112 Credit : 1.50 Contact Hours: 3 | Total Marks: 100 | |

**11.1 Rationale:** To be a computer engineer, one needs to practically apply electricity and electromagnetism in different electrical applications.

* 1. **Objectives:**

1. To familiarize with different electrical components and measuring instruments.
2. To verify different laws and theorems in basic circuits.

|  |  |  |  |
| --- | --- | --- | --- |
| **11.3**  **Learning Outcomes** | **11.4**  **Course Content** | **11.5**  **Teaching Learning Strategy** | **11.6 Assessment Strategy** |
| 1. Identify resistor, capacitor, inductor 2. Identify measuring instruments | Familiarization with different electrical components and measuring instruments. | Lecture, Demonstration | Short answer, Assignment, Viva, reports |
| 1. Perform ohm’s and kirchhoff’s law | Ohm’s law, kirchhoff’s law | Lecture, Demonstration | Short answer, Assignment, Viva, reports |
| 1. Design of series, parallel and series-parallel circuit | series circuit, Parallel circuit and series parallel circuit. | Lecture, Demonstration | Short answer, Assignment, Viva, reports |
| 1. Perform different theorem in practical circuits. | Thevenin’s theorem, Norton’s theorem, superposition theorem, Reciprocity theorem, Maximum power transfer theorem | Lecture, Demonstration | Short answer, Assignment, Viva, reports |

**RECOMMENDED BOOKS AND PERIODICALS**

**Recommended Books**:

1. B.L. Theraja : A text book of Electrical Technology, Volume: I
2. V.K. Mehta : Principles of Electrical Engineering and Electronics
3. G.F. Corcoran : Alternating Current Circuits