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.

11.2   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
a. Identify resistor, capacitor, inductor b. Identify measuring instruments	Familiarization with different electrical components and measuring instruments.	Lecture, Demonstration	Short answer, Assignment, Viva, reports
a. Perform ohm's and kirchhoff's law	Ohm's law, kirchhoff's law	Lecture, Demonstration	Short answer, Assignment, Viva, reports
a. Design of series, parallel and series-parallel circuit	series circuit, Parallel circuit and series parallel circuit.	Lecture, Demonstration	Short answer, Assignment, Viva, reports
a. 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