CIV1203 Electrical Engineering

Hours per Semester				Weighted Total Mark	Weighted Exam Mark	Weighted Continuous Assessment Mark	Credit Units
LH	PH	TH	CH	WTM	WEM	WCM	CU
30	30	0	45	100	60	40	3

Course Description

This course focuses on fundamentals of electrical engineering, circuit analyses of simple electrical systems (DC & AC), single and three phase supplies, basic electrostatics and electromagnetics.

Objectives

- To provide students with basic knowledge or fundamentals in Electrical Engineering mainly laws, principles and Theorems.
- To introduce students to circuit analyses of simple electrical systems by being able to draw electrical circuits and determine electrical quantities of real systems under different system conditions.
- To predict behaviour or performance of electrical systems/circuits under both transient and steady state conditions
- To enable students acquire diagnostic skills in identifying electrical faults (fault tracing) electrical tests and troubleshooting simple electrical equipment.
- To provide students with knowledge in magnetic circuits which form a basis for understanding of electrical machines.
- To provide students with basic knowledge in electrostatics to enable them appreciate the electrical safety in buildings mainly Lightning Protection.
- To equip students with basic knowledge in electrical safety in buildings and measures taken to enhance it.