ELE1112 INTRODUCTION TO 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	0	00	30	100	60	40	2

Brief Course Description

The course introduces students to the practice of electrical engineering discussing the different skill sets and occupations expected for electrical engineers.

Course Objectives

To give a historical background, present status and future challenges of the electrical engineering profession

Detailed course content

University studies and engineering: **[8 Hours]**

Introduction, criteria in selecting electrical engineering fields, value of electrical engineering to society

Electrical engineering profession: **[8 Hours]**

Bbackground to the profession, fields (power, telecommunications, electronics, computer systems, management). Interrelation to other engineering disciplines

Development of science and technology in Uganda: evolution of engineering practice in Uganda; standard of engineering, history of electrical engineering.

Analytical methods: scientific methods, experimental methods **[10 Hours]**

Ethics and integrity in engineering: professionalism, ethics, integrity **[4 Hours]**

Professional bodies in Uganda and internationally: UIPE, ERB, development of a professional engineer. IEEE, IEE/IET

Method of Teaching /Delivery

The course will be taught by using lectures, tutorials and assignments.

Mode of Assessment

Assignments, tests and final examination. Their relative contributions to the final grade are :

Requirement	**Percentage contribution**
Course work (Assignments, tests)	40%
Final examination	60%
Total	**100%**

Possible Lecturers:

Dr. D. Okello

Mr. S. Mwanje
Dr. E. Lugujjo
Dr. J. Butime