

ELE 2201	Power Systems Theory	4
ELE 2202	Electrical Materials II	4
ELE 2203	Network Theory	4
ELE 2204	Economics for Electrical Engineers	4
TEL 2205	Electric Energy Systems	4
TEL 2206	Internet Technology I	4
TEL 2207	Principles of Accounts for Telecom	3
TEC 2205	Electrical Energy Systems	4
TEC 2206	Internet Technology I	4
TEC 2207	Principles of Accounts	3
IND 2301	Industrial Training I	2
TEC 2301	Industrial Training	2
Year III: Semester I		
EMT 3101	Engineering Mathematics V	4
EMT 3101	Electromagnetic Fields	4
ELE 3101	Electronic Fields	4
ELE 3102	Applied Analogue Electronics	4
ELE 3103	Applied Digital Electronics	4
ELE 3104	Energy conversion	4
ELE 3109	Engineering Mathematics V	4
TEL 3101	Basic Telephony	4
TEL 3102	Internet Technology II	4
TEL 3105	Basic Telephony	4
TEL 3106	Opto-Electronics and Fibres and Cables	4
TEL 3107	Communication Radio Systems	4
TEL 3108	Internal Technology II	4
EMT 3201	Engineering Mathematics VI	4

Year III: Semester II		
ELE 3201	Instrumentation	4
ELE 3202	Control Engineering	4
ELE 3203	Power Electronics	4
ELE 3204	Communication Engineering I	4
MEC 3204	Communication Engineering I	4
TEL 3201	Business Management I	3
TEL 3205	TV Systems	4
TEL 3207	Mobile Communication Systems	3
ELE 3206	Business Management for EE I	3
ELE 3301	Industrial Training for Elec Eng II	2
TEC 3301	Industrial Training	2
Year IV: Semester I		
ELE 4100	Final Year Project I	
ELE 4101	Communication Engineering II	4
ELE 4102	Propagation	4
TEL 4105	Satellite Communications	3
ELE 4103	Telecommunications Systems I	3
ELE 4104	Microprocessors	3
ELE 4108	Business Management for Engineers II	4
Semester II		
ELE 4201	Final Year Project II	4
ELE 4202	Telecommunications Systems II	4
ELE 4203	Computer Systems Engineering	4
ELE 4204	Radio Frequency Engineering	3
ELE 4300	Final Year Project I	
ELE 4303	Final Year Project II	

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING

Objectives

The graduates from this computer engineering programme will be geared towards computer architecture, computer networks and the design of digital hardware to form a core group to spear head implementation of computer engineering activities and networks in Uganda and the East African Sub-region. This will lead to emergence of computer assembling and design to lower costs of computers in the region even further. In addition, the curriculum has elements which will foster ICT incubation as a key component for those who look forward to become key players in job creation

in the computer production, etc industry.

The programme is oriented for use in computer engineering and ICT incubation. Thus, the graduate from this programme is going to play an important role in the emerging computer industries in Uganda and the East African the sub-region.

The objectives of this programme will be:

- To train Computer Engineers that will be absorbed in the public and private sectors in such areas as government ministries, local government departments,

other government departments and parastatals, telecommunications firms, and private consultancies within the ICT sector. However, we expect them to be eventually self-employed through undergoing an ICT business incubation programme with emphasis on hardware.

- To provide students enrolling in the Programme technical and market oriented skills within the ICT industry.
- Graduates of this programme are expected to gain significant employment in both the private and public sector and also be job creators.
- Cross-pollination of the existing departments within the Faculty of Technology and any other Faculty in which these expertise will be needed, for instance, in the Directorate of ICT Support (DICTS), the University Library (UL) and Institute of Computer Science (ICS).

Programme Structure

YEAR I Semester I		
Course Code	Course Name	CU
EMT 1101	Engineering Mathematics I	4
TEL 1105	Engineering Graphics (CAD)	3
TEL 1103	Information and Communication Technology	4
ELE 1104	Physical Electronics	4
HA 1101	Communication Skills	3
	Total	18
YEAR I, Semester II		
EMT 1201	Engineering Mathematics II	4
CME 1201	Engineering Computing in C++	3
CME 1202	Introduction to Digital Systems	4
CME 1203	Circuits I	4
HA 1201	Engineering Ethics	4
Recess Term		
CME 1301	Workshop Practice (Core Course)	2
	Total	21

YEAR II, Semester I		
EMT 2101	Engineering Mathematics III	4
TEL 2102	Software Engineering	3
ELE 2103	Electronic Circuits	3
CME 2101	Electricity and Magnetism	4
ELE 2105	Electrical Materials I	4
	Total	21
Elective Courses		
HA 2101	Sociology	3
HA 2102	Human Rights and Gender Issues	3
YEAR II, Semester II		
EMT 2201	Engineering Mathematics IV	4
CME 2201	Circuits II	3
CME 2202	Digital Design Techniques	3
ELE 2203	Electrical Materials II	3
ELE 2204	Network Theory	4
TEL 2205	Electric Energy Systems	3
Total	21	
Elective Courses		
TEL 2206	Internet Technology I	3
HA 2201	Principles of Accounts	3
Recess Term		
CME 2301	Industrial Training (Core Course)	2
YEAR III Semester I		
CME 3101	Network Management	4
CME 3102	Introduction to Computer Architecture	3
CME 3103	Microprocessors	3
ELE 3104	Applied Digital Electronics	4
TEL 3105	Basic Telephony	4
TEL 3106	Opto-Electronics and Fibre Cables Communication Network	4
		21
Elective Courses		
TEL 3107	Communication Radio Systems	4
TEL 3108	Internet Technology II	4
		4
YEAR III, Semester II		
CME 3201	Microprocessor based Systems Design	3

ELE 3202	Instrumentation	4
ELE 3203	Control Engineering	4
ELE 3204	Maintenance Engineering	4
CME 3202	Advanced Design Project	3
		18
Elective Courses		
TEL 3205	TV Systems	4
HA 3201	Business Management I	3
Recess Term		
CME 3301	Industrial Training (Core Course)	2
YEAR IV Semester I		
CME 4300	Final Year Project I	3
TEL 415	Satellite Communications	3

ELE 413	Telecommunications System	3
Elective ,Courses		
HA 411	Business Management II	4
	Total	13
YEAR IV Semester II, All Core Courses		
CME 4300	Final Year Project II	3
TEL 4202	Computer Systems Engineering and Networking	5
TEL 4205	Entrepreneurship	4
ELE 4204	Antennae	3
	Total	15

POSTGRADUATE PROGRAMMES

POSTGRADUATE DIPLOMA IN CONSTRUCTION MANAGEMENT (DAY/EVENING) (GCPM)

Introduction

The training of architects and those in the related professions of the building industry in Uganda has been going on within and outside Uganda for quite some time. Of recent the need to have specific knowledge over a wide range of issues for the professionals necessitates further training, which in turn requires time, commitment and resources. Many of those in the field find it difficult to pursue further studies, while remaining committed to their work. On the other hand, some of the skills needed require a shorter, but more targeted approach.

In order to meet these contradictory requirements the Department of Architecture shall execute a programme of Postgraduate Diploma in Project Management (Dip. Project Management). This programme will be more market oriented addressing major issues of concern in the practical world, within the time span allocated.

Objectives

The overall objectives of the programme is to produce highly skilled professionals in the construction industry with the knowledge

to respond to the demands of the practical world.

Specifically, the programme will seek to:

- Promote the acquisition of advanced practical and demand driven skills in construction in the building profession.
- Equip professionals with expertise in use of applied management skills.
- Enable professionals to independently and effectively solve multi-faceted issues of the day to day activities in the construction field.

General Regulations

The common Regulations and Guidelines for Postgraduate studies of Makerere University shall be applicable.

Programme structure

Curriculum

Duration

- This course shall be offered over a duration of one academic year divided into 2 semesters. Each semester being 17 weeks.