

## **FACULTY OF TECHNOLOGY**

### **Introduction**

The University was founded as a Technical School that was later established as a Technical College as far back as 1922. Before 1967, under the University of West Africa, all the technical training was done at the University of Nairobi in Kenya. However, in July 1970 the Faculty of Technology was opened with 27 students. At the time of opening three traditional departments (Civil, Electrical, and Mechanical Engineering) were established and marked the beginning of a four year course in technology. The Faculty of Technology is the prime technical institute of Uganda and currently comprises the Departments of Architecture, Civil Engineering, Electrical Engineer-

ing, Mechanical Engineering and Surveying. With the introduction of the semester system, the traditional course structure which leads to the award of the degree of Bachelor of Science in Engineering has been replaced by course structures that now lead to the award of separate Bachelor of Science Degrees in the three disciplines of Civil, Electrical and Mechanical Engineering.

The designation of Bachelor of Science in Civil Engineering (B.Sc.C.E.), Bachelor of Science in Electrical Engineering (B.Sc.E.E.), and Bachelor of Science in Mechanical Engineering (B.Sc.M.E.) was adopted.

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## **UNDERGRADUATE PROGRAMMES**

### **ORDINARY DIPLOMA IN CIVIL ENGINEERING SURVEYING**

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#### **Objectives of the Programme**

The programme is to provide sufficiently trained staff with civil engineering survey skills at Survey Assistant and Junior Surveyor level to work for consultant engineers, civil engineering contractors, architects, non-governmental organizations and government technical ministries and agencies to fill the gap between the surveyor and the engineer. Staffing in the Civil Engineering Department for the continuing of this programme has also to be considered.

In addition, it is hoped that students will be encouraged to continue their studies to the degree programme in the same profession, so that once there are a number of graduate civil engineering surveyors, they may form a professional body to stabilize the civil engineering profession at its weakest point, i.e. the proper collection of the field data.

#### **Admission Requirements**

Admission to the Diploma programme: Normal entry will be by continuing from the certificate programme in civil engineering Surveying, but in addition the candidate will need advanced level principal passes in Mathematics and Geography of the

Uganda Advanced Certificate of Education Examination or a pass in the Remedial Mathematics and Remedial Geography.

#### **Conduct of the Programme**

##### **Type of Programme**

This programme shall be conducted through presentations, coursework and examinations.

##### **Programme Duration**

The minimum duration of this programme shall be ONE (1) year for the Certificate programme and TWO years, inclusive of the Certificate programme, for the Diploma programme. The programmes are designed to be taken over a minimum period of two and four semesters respectively. The duration of a semester is seventeen (17) weeks. There shall be university examinations to be conducted in the last two weeks of each semester. The recess period between the years will last for 10 weeks.

##### **Programme Structure**

<b>Year I: Semester One</b>		<b>CU</b>
CES 1101	Preliminary Surveying	2
CES 1102	Reading the Field I (Feasibility, preliminary design)	4

CES 1103	Environmental Studies I	2
HA 1101	Communication skills	3
CES 1104	Introduction to Data Collection	3
CES 1105	Chainman Practice	4
CES 1106	Journal Book-keeping, Simple Insurance	2
<b>Semester Two</b>		
CES 1201	Preliminary Surveying II (Principles)	2
CES 1202	Reading the Field 2 (Final design, construction)	4
CES 1203	Computer Studies I	2
HA 2101	Sociology	3
CES 1204	Data Collection I	3
CES 1205	Leveller Practice ( <b>Prerequisite CES 1105</b> )	4
CES 1206	Basic Law, Local knowledge	2
CES 1301	Industrial Attachment ( <b>Core</b> )	2
<b>Year II: Semester One</b>		
CES 2101	Materials	2

CES 2102	Reading the Field 3 (maintenance, rehabilitation) ( <b>prerequisite CES 1102</b> )	4
CES 2103	Computer Studies 2	2
CES 2104	Data Collection 2 (instrument use and booking)	2
CES 2105	Survey Assistant Practice ( <b>prerequisite CES 1105</b> )	4
CES 2106	Double Entry Book-keeping and Insurance	2
<b>Semester Two</b>		
CES 2201	Presentation	2
CES 2202	Reading the Field 4 (mutal influences) ( <b>prerequisite CES 2101</b> )	4
CES 2203	Environmental Studies 2	2
CES 2204	Data Collection 3 (further instruments and methods)	4
CES 2205	Junior Surveyor Practice ( <b>prerequisite CES 2105</b> )	4
CES 2206	Additional Law, Design Criteria	2

## BACHELOR OF ARCHITECTURE (BARC)

### Introduction

The Department of Architecture was established in 1984. In October 1989 the Department made its intake of the first eight students. Since then, the Department has continued to grow in both student and staff levels despite the odds against it, particularly lack of adequate physical resources. The Department in 1999 was accredited by the Commonwealth Association of Architects, which means that the degrees awarded by the Department are considered to be equivalent to those recognized by the Royal Institute of British architects (RIBA), an achievement that is bestowed to very few schools of architecture outside the United Kingdom.

### Programme Structure

<b>Year I: Semester I</b>		<b>CU</b>
ARC 1101	Architectural Design Portfolio I	5
CSK 1101	Communication Skills	
ARC 1102	Architectural Design Fundamentals I	4
ARC 1103	Theory of Architecture I	2

ARC 1104	Building Technology and Services I	3
EMT 1103	Mathematics for Architecture	3
TEC 1101	Communication Skills for Technology	3
ARC 1105	History of Architecture I	2
<b>Semester II</b>		
ARC 1201	Architectural Design Portfolio II	5
ARC 1202	Architectural Design Fundamentals II	4
ARC 1203	Theory and Design Structures for Architects I	2
CIV 1203	Electrical Engineering for Civil Engineers	2
ARC 1204	Environmental Building Science I	2
ARC 1205	History of Architecture I	2
<b>Recess Term</b>		
ARC 1301	Measured Drawing	2
TEC 1301	Workshop Practice	2
<b>Total Credit Units for Year I</b>		<b>41</b>