

MAKERERE UNIVERSITY



Makerere University, Faculty of Technology Telephone: +256 - 414 545029 Fax: +256 - 41 532780 Email: info@tech.mak.ac.ug Website: http://www.tech.mak.ac.ug Undergraduate Prospectus 2009/2010

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Indergraduate Prospectus 2009/10

Introduction

The Faculty of Technology fully opened its doors in July 1970 with an intake of 26 students in the three traditional areas of Civil, Electrical and Mechanical Engineering at a time when the Uganda Government realised that industries needed more technical manpower than what was being produced, mainly from the University of Nairobi and abroad at that time.

The engineering programme duration lasted four years, divided into three parts - the Preliminary and Part I, which were common to all the students, lasting two years. Part II involved splitting of the students into the three disciplines also with a duration of two years.

A major structural change took place in July 1978 when the common course was reduced to three terms, becoming the equivalent of the first year. Examinations were then held at the end of each academic year. The fourth term of each year was devoted to industrial training. The programme instituted in 1978 remained virtually unchanged until December 1995 when a second major change took place in the Engineering Courses. It was resolved that admissions were to be direct into the three disciplines of Civil, Electrical and Mechanical Engineering. Three years later the department of Architecture was started in 1989, followed by that of surveying in 1990.

In 1990, the Faculty of Agriculture started a department of Agricultural Engineering, with an arrangement that their students spend their first two years in the Faculty of Technology, studying the same subjects with their Mechanical Engineering counterparts, an arrangement that still stands the test of time.

In 1998 the University introduced a semester system which the Faculty of Technology embraced. This was accompanied by diversification, redesign and introduction of a credit system. The semester system has continued to promote specialised training of technology students in their respective disciplines, namely, Civil, Mechanical, Electrical, Surveying and Architecture.

During the first 16 years of its existence, the progress of the Faculty was made possible by the unswerving support of UNDP-UNESCO project that provided expatriate staff, scholarships, laboratory equipment and text books. Since then, the Faculty has expanded and now boasts of six undergraduate departments, two sub-departments of Engineering Maths and Urban Planning and a fully fledged graduate programme. There are also plans in the pipeline to transform into a College of Engineering and Technology in order to foster the expansion and development of the Engineering options.

The Faculty Board is the supreme organ of the Faculty, with its twelve Faculty Board Committees. The Dean is the Chairman of the Faculty Board and Chief Executive of the Faculty, assisted by two deputy deans, one for Research and Graduate Studies and that for Undergraduate Affairs, and Heads of departments. The Dean is elected democratically by all Senior members of the Academic Staff in the Faculty for a period of 4 years renewable once and approved by the University Appointments Board. The same process applies to the appointments of the Deputy Deans and Heads of Departments. The work of managing the Faculty is facilitated by various Faculty Committees that meet regularly and report to the Faculty Board.



A Message from the Dean

Arch. Dr. Barnabas Nawangwe Associate Professor, Architecture

The role of technology in developing countries the globe over is more significant today than ever before. Ranging from infrastructure development to telecommunications, there is an ever increasing need for engineers and architects in today's dynamic society.

For a period of over three decades, the Faculty of Technology has been striving to meet society's need for such professionals. Throughout this time, the faculty has found itself at the vanguard of technological advancement while staying relevant to the needs of the society in which it exists. In response to the changing needs of society, the faculty that offered courses in Civil, Electrical and Mechanical Engineering in 1969, has since grown to offer courses in architecture, Land and Quantity Surveying, Telecommunications Engineering, Construction management and most recently Computer Engineering. Driven by its commitment to respond to society's needs, there is little doubt that even more programmes shall be introduced in the future.

The most significant development at the faculty is the progressive shift in the teaching paradigm. The shift is from the traditional classroom based instruction style to an experiential one. This focuses on closer interactions between the instructors and students coupled with increased involvement of undergraduates in ongoing research endeavors. The increased interactions and hands on experience guarantees the delivery of industry- ready graduates.

I welcome you to this great Faculty and assure you that you have chosen the right place to start your long career walk.



Dr. Allan Birabi Faculty Public Relations Officer Lecturer Architecture

Why Faculty of Technology?



For over three decades, the Faculty of Technology has produced more than 3000 engineers, architects and surveyors who are proudly serving their country and beyond and enjoying their careers. It is practically impossible to find a graduate of the Faculty of Technology who is not employed either by self, government, consulting firm, international organization, bank, NGO or other employer. By virtue of their training, graduates of the Faculty of Technology may be employed not only along their specialization, but in many diverse areas of human endeavour.

As you join the Faculty of Technology, you can be sure that with the best lecturers, well equipped facilities and the diverse experience, you are entering a stage of your education that will not only be a basis for your future career but also an enriching experience in your life, family and nation.

Mission Statement

The mission of the Faculty of Technology is to undertake high quality research relevant to the region's and global development needs and consequently produce highly qualified graduates with specialised skills but equipped with holistic knowledge, as well as Professional Services and Innovation for Sustainable National and regional Development.



Faculty Administration

The Faculty is headed by the Dean, who is assisted by two Deputy Deans, one in charge of Research and Graduate Studies and the second, in charge of Undergraduate Affairs.





Arch. Dr. Barnabas Nawange Dean. Associate Professor Architecture

Dr. S.S. Tickodri-Togboa Deputy Dean (Undergraduate Affairs), Associate Professor Engineering Mathematics



Eng. Dr. Mackay A.E. Okure Deputy Dean (Research and Graduate Studies) Associate Professor, Mechanical Engineering





Mr. Mugisha M. Emmanuel Assistant Registrar

University Regulations

The Academic Year

In the Semester/Credit Unit System at Makerere University, the Academic Year shall be composed of Two (2) Semesters and One (1) Recess Term.

The Academic Programmes shall be designed per Semester/Recess Term per Academic Year, for example, Semester One, Semester Two and (where applicable) Recess Term for Year One, etc.

Length of Semester

The length of a Semester shall be Seventeen (17) weeks with Fifteen (15) weeks being for Teaching and Two weeks for Examinations. The duration of a Recess Term shall be Ten (10) weeks.

Registration of Students

The Central Registration of students is decentralized to Col-leges/Faculties/Schools/Institutes. The staff from the Office of the Academic Registrar are deployed to oversee the registration exercise at those Academic Units.

There shall not be a specific time set aside for registration exclusively. However, students shall be required to ensure that they register within the first three weeks from the beginning of the First Semester. Freshers normally register during the Orientation Week.

Continuing students shall indicate the Courses they would wish to offer/take in Semester Two while they would still be in Semester One. However, each Continuing student shall confirm the Courses they would actually offer/take in Semester Two in the First Week of that Semester Two.

Arrangements can also be made for registration to start before the beginning of the Academic year.

Academic Programmes

Each Academic Programme shall be defined by Courses

ii. An Academic Programme shall be composed of a set of prescribed Courses that shall be registered for by a student in order for him/her to qualify for the Award of a particular Degree/ Diploma/Certificate.

The concepts of Subjects and Papers shall not be used in a Semester/Credit Unit Sysiii. tem. Academic Programmes designed shall compare favourably with similar international ones. The structure of a particular Academic Programme shall show clearly the Core, Elective iv. and Pre-requisite Courses.

A Course

A Course is a unit of work in a particular Field/Area of a study normally extending through one Semester the completion of which normally carries credit towards the fulfillment of the requirements of certain Degrees, Diplomas, or Certificates.

Size of a Course

a) The smallest Course shall be Two (2) Credit Units.

b) A Course that has a Practical Component within it shall have a Maximum of Five (5) Credit Units.

c) A Course that has no Practical Component within it shall have a Maximum of Four (4) Credit Units.

Contact Hour

A Contact Hour shall be equivalent to One (1) hour of Lecture/Clinical or Two (2) hours of Tutorial/ Practical or four (4) hours of internship/Fieldwork.

Credit or Credit Unit

A Credit or Credit Unit is the measure used to reflect the relative weight of a given Course towards the fulfillment of appropriate Degree, Diploma, Certificate or other programmes required. One Credit Unit shall be One Contact Hour per Week per Semester or a series of Fifteen (15) Contact Hours.

Categorizing Courses

(a) Courses shall be categorized as Core, Elective, Pre-requisite or Audited.

(b) Not all the Courses in an Academic Programme shall be made Core.

(c) The Courses for the First Year Studies shall be called Pre-requisite or Introductory Cours-

es.

(d) All the Courses having the same content shall have the same Names, Codes and Credit Units.

(e) Only the Academic Departments that have the mandate to teach particular Courses shall be the ones to co-ordinate/teach such Courses wherever they are taught/offered.

(f) The level of content of a particular Course has to match the Credit Units allocated to that Course.

(g) The number of Elective Courses that each student shall be required to register for in every Undergraduate Academic Programme shall always be stated so as to guide the students when they are choosing them from a particular set of Elective Courses.

(h) There shall always be a ceiling for the number of Undergraduate students who shall be allowed to register for particular Elective Courses.

(i) The Undergraduate students should be encouraged to register for Audited Courses as

well.

(j) The Elective Courses for Postgraduate students shall be specialized or broad-based and shall be offered in any Semester.

(k) The Course Content of Postgraduate Academic Programmes have to match the higher level of study required of Postgraduate students.

Core Course

(a) A Core Course shall be a Course which is essential to an Academic Programme and gives the Academic Programme its unique features. Everyone offering that particular Academic Programme must pass that Course.

(b) Core Courses shall be offered in all the Semesters.

Elective Course

An Elective Course shall be a Course offered in order to broaden an Academic Programme or to allow for specialization. It is chosen from a given group of Courses largely at the convenience of the student. Another Elective Course may be substituted for a failed Elective Course.

Audited Course

An Audited Course shall be a Course offered by a student for which a Credit/Credit Unit shall not be awarded.

Prerequisite Course

Pre-requisite

A Pre-requisite is a condition (either Course or Classification), which has to be sat-isfied prior to enrolling for the Course in question. A Pre-requisite Course, there-fore, shall be a Course offered in preparation for a higher level Course in the same area of study.

Course Requiring a Pre-requisite

a. When a student fails a Pre-requisite Course, he/she shall not be allowed to take the higher level Course requiring a Pre-requisite.

b. A student will be required to retake the failed Pre-requisite Course before embarking on a higher-level Course requiring a Pre-requisite.

Major

A Major shall be a set of Courses in a Field/Area of specialisation in which each student is encouraged to explore the Field/Area in considerable depth. The set of Courses for a Major shall constitute not less than two-thirds of the Programme Load.

Minor

A Minor shall be a set of Courses in a Field/Area that is of lesser importance than the Major. A Minor shall constitute not more than a third of the Programme Load.

5.16 Specialization in an Academic Programme

Some Academic Programmes allow some degree of specialization within a particular Programme. A Programme specialization shall be a set of Courses combined from both a Major and Minor areas.

Academic Programme Load

Academic Programme Load shall be the essential set of Courses registered for/offered by a particular student for the Award of a certain Degree/Diploma/Certificate. It has both Core and Elective Courses.

5.18 Semester Load

i. Semester Load shall be the total number of Courses for a particular Academic Programme offered in a Semester.

ii. The Courses to be Retaken and those to be audited shall be within the Maximum Semester Load of every student.

5.19 Normal Semester Load for Undergraduate Academic Programmes

The Normal Semester Load for Undergraduate Academic Programmes shall range from Fifteen (15) Credit Units to Twenty-One (21) Credit Units.

Maximum Semester Load for Undergraduate Academic Programmes

The Maximum Semester Load for Undergraduate Academic Programmes shall be Twenty-eight (28) Credit Units so as to cater for students who have Courses to retake or those who would be able to complete the requirements for their respective Academic Awards in less than the stipulated minimum duration).

Assessment

Each Course shall be assessed in two (2) parts as follows:

a) The Coursework (Progressive/Continuous Assessment), which shall contribute not less than 30% nor more than 40% of the Total Marks.

b) The Coursework (Progressive/Continuous Assessment) Component shall consist of at least One (1) Test and One (1) Homework/Take-Home Assignment OR Two (2) Tests per Course.
 c) The University Examinations, which shall contribute a maximum of 70% of the Total Marks.

Grading of Marks
The overall Marks a candidate obtains
in each Course he/she offered shall be
graded out of a maximum of One Hun-
dred (100) Marks and assigned appropri-
ate Letter Grades and Grade Points as
follows:

Marks			
90-100	A+	5	Exceptional
80-89	A	5	Excellent
75-79	B+	4.5	Very good
70-74	В	4	Good
65-69	C+	3.5	Fairly good
60-64	С	3	Fair
55-59	D+	2.5	Pass
50-54	D	2	Marginal pass
45-49	E	1.5	Marginal Fail
40-45	E-	1	Clear Fail
Below 40	F	0	Bad Fail

Retaking a Course or Courses

i. A student shall retake a Course or Courses when next offered again in order to obtain at least the Pass Mark (50%) if he/she had failed during the First Assessment in the Course or Courses.

ii. A student who has failed to obtain at least the Pass Mark (50%) during the Second Assessment in the same Course or Courses he/she has retaken shall receive a warning.

iii. A student may retake a Course or Courses when next offered again in order to improve his/her Pass Grade(s) if the Pass Grade(s) got at the first Assessment in the Course or Courses were low. A student who fails to attain higher marks after retaking to improve, the examination results of the first sitting are recorded on the transcript and should not be recorded as Retake.

iv. Where a student misses to sit examinations for justified reasons; the grades obtained after sitting examination shall not be recorded as a retake because the candidate is sitting the examinations for the first attempt.

v. While retaking a Course or Courses, a student shall:

(a) Attend all the prescribed lectures/ tutorials/Clinicals/Practicals/Fieldwork in the Course or Courses;

(b) Satisfy all the requirements for the Coursework Component in the Course or Courses; and

(c) Sit for the University Examinations in the Course or Courses.

vi. A student shall not be allowed to accumulate more than five (5) Retake Courses at a time. Students are required to register for retakes course(s) first before registering for new courses offered in that semester and the retake courses should fit into the approved normal load to avoid time table clash.

vii. A final year student whose final Examination Results has already been classified by the relevant College/Faculty/School/Institute Board and has qualified for the Award of a Degree/Diploma/Certificate, shall not be permitted to retake any Course or Courses.

viii. When a student has retaken a course the better of the two Grades he/she has obtained in that Courses shall be used in the computation of his/her cumulative Grade Average (CGPA).

ix. Whenever a Course or Courses has/have been retaken, the Academic Transcript shall indicate so accordingly.

x. Students who have a course(s) to retake and these Course(s) fall beyond the set normal semester load for their Academic Programmes shall pay tuition fees for any Course/ Courses to be retaken. Besides, such students also pay the re-examination fees per Course retaken as well as the Registration Fees.

Faculty of Technology

Progression

Normal Progress

Normal Progress shall occur when a student has passed the Assessments in all the Courses he/ she had registered for in a particular Semester and not when he/she has passed the Assessments in the Core Courses only.

Probationary Progress

A student who has obtained the Cumulative Grade Point Average (CGPA) of less than 2.0 shall be placed on Probation. Such a student shall be allowed to progress to the next Semester/Academic Year but shall still retake the Course(s) he/she had failed the assessments in later on and obtain at least the Pass Mark (50%) in the Course(s).

Certificate of Due Performance

i. A student who fails to honor the deadline set for handing in an assignment without justifiable causes(s) shall receive a score of a zero or fail grade in that assignment.

ii. A student who does not have coursework marks shall be denied Certificate of Due Performance and will not be allowed to sit the University Examinations.

Examinations

Absence from Examination

i. If the Board of a College/Faculty/School/Institute is satisfied that a student has no justifiable reason for having been absent from a particular examination, such a student shall receive a fail (F) Grade for the Course(s) he/she had not sat the examination in. The Course(s) in which the Fail (F) Grade was/were awarded shall also count in the calculation of the CGPA.

ii. If the Board of a College/Faculty/School/Institute is satisfied that a student was absent from coursework assessment and or a final examination due to justifiable reason(s) such as sickness or loss of a parent/guardian, then a Course Grade of ABS shall be assigned to that Course(s).

Deferred Examination

i. A student who provides credible reason for failure to complete coursework assessment or to attend an examination based on 27(ii)above may be permitted to 'sit' the deferred examination or coursework assignment when the course(s) is being offered again.

ii. Students needing a deferred exam must submit application to their respective Dean's or Director's Office. The application and supporting documentation pertaining to the absence must be presented as soon as the student is able, having regard to the circumstances underlying the absence but not later than the beginning of the semester in which the examination is scheduled. Where the cause is incapacitating illness, a student must present a University Hospital Medical Statement Form. In other cases, including severe domestic affliction, adequate documentation must be provided to substantiate the reason for an absence.

iii. In case the application for deferred examination has been approved, the Department responsible for the course shall make arrangements for the approved deferred exam.

iv. The grades obtained from a deferred examination shall not be categorized as retake

because the assessment(s) is for the first time.

v. A deferred exam shall not be approved if a student has not been in regular attendance where attendance and/or participation are required, and/or, excluding the final exam has completed less than half of the assigned work.

vi. A Student with two or more deferred exams outstanding from a previous semester may be required to reduce the number of courses in which they are registered in order to accommodate deferred courses from previous semester(s) in their semester load. Deferred examination shall be included in a Student's maximum semester load.

vii. A Student shall be required to pay for deferred examination and payment of shall normally be made at the beginning of the semester.

Conceded Pass

A "Conceded Pass" is a pass granted for a course in which a final year candidate is within five marks of a pass mark in the course assessment. The pass is conceded on the basis that the student's overall performance in other courses for the programme has been sufficiently strong to counter the deficient percentage in that particular course.

b) Circumstances Potentially Warranting a Conceded Pass.

The personal circumstances of a student must be taken into account. The student's performance in the course could have been adversely affected by his/her personal circumstances. The circumstances for approval of a Conceded Pass may include but not limited to:

i. Student illness or Medical condition.

iii. Commitments to participate in national sport or other activities that warrant favourable consideration.

iv. Commitments to assist with community service activities.

v. Unavoidable and unexpected work commitments (e.g. relocation).

vi. Awarding conceded passes does not compromise the requirements for accreditation of that programme by a professional body.

c) Responsibility and Procedure

i. The Conceded Passes are granted at the discretion of the Faculty/Institute/ School's Board of Examiners. Students are not automatically entitled to the Conceded Passes and may not request them.

ii. The Board of Examiners shall during the time of consideration of examination results, identify and grant students eligible for Conceded Passes. A Student will then be formally informed that he/she has been offered a Conceded Pass.

d) Eligibility for a Conceded Pass

A conceded pass shall be granted under the following conditions:

i. A candidate on Undergraduate Programme shall be eligible for a Conceded pass if the final mark in a Course is in the range of 45 – 49% inclusive and the Cumulative Grade Point Average (CGPA) for the student will be at least 2.0.

ii. A Conceded Pass may only be awarded if a student has attempted the paper, at least three times. The better of the grades earned will be used for awarding a Conceded pass.

iii. A Conceded pass shall be discretionary and the Examination Boards shall take into account the following: 12

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ii. Family issues (family injury or illness, bereavement etc).

- a. The results a student has scored each time he/she has attempted the paper.
- b. A student's overall Academic record

c. Comments from his/her lecturers, e.g. on their class attendance, participation

d. Whether the course is required for professional accreditation; or it is necessary for a stu-

dent to demonstrate professional or clinical competence as part of its assessment requirements

iv. A Conceded Pass shall be granted to a whole course, not to a particular piece of assessment.

v. Candidates granted Conceded pass shall earn a credit on the basis of Conceded Pass "CP" $\,$

vi. Only candidates in their final year of studies shall be eligible for Conceded pass.

vii. In both undergraduate and postgraduate programmes, the number of conceded pass will be restricted to only one course.

viii. In case a Candidate who does not qualify for conceded pass as stipulated above the existing provision in the semester regulations will guide as the case may be.

e) Recording a Conceded Pass on the Academic Transcript

A granted Conceded Pass will be recorded on the student's academic Transcript by indicating the true percentage /grade achieved, and "CP" as the grading code.

Discontinuation

i) When a student accumulates three consecutive probations based on CGPA he/she shall be discontinued.

ii) A student who has failed to obtain at least the Pass Mark (50%) during the Third Assessment in the same Course or Courses he/she had retaken shall be discontinued from his/her studies at the University.

iii) A student who has overstayed in an Academic Programme by more than Two (2) Years shall be discontinued from his/her studies at the University.

Change of Course

A student may be permitted to change course(s) in an Academic Programme in order to substitute the Course(s) failed. The Substitute Course(s) should be within the specified Course (s) for that Academic Programme.

Change of Academic Programme

A student may be permitted to change from one Academic Programme to another on condition that:

i) He/she had satisfied the admission requirements for the Academic Programme applied for.

ii) He/she should not have been attending lectures/tutorials and other academic activities of the Academic Programme he/she would want to change from for more than one-half of the duration of the programme.

iii) He/she had not been previously dismissed on disciplinary grounds from the University.

A student permitted to change his/her Programme may be allowed to transfer the Credits from the previous Academic Programme to the new Academic Programme, provided that the Credits being transferred are relevant to the new Academic Programme.

Guidelines for Transfer of Credit Units

Guidelines for the transfer of Credit Units for Undergraduates and Graduate Students who apply to transfer from other recognized Universities or equivalent Institute of Higher Learning to Makerere University. Students should have the following requirements;

a) Must satisfy the admission requirement for the academic program(s) applied for.

b) Must obtain and submit an official academic Transcript (s) Certificate from a recognized University/institution of Higher learning in which he/she was previously enrolled indicating his/her academic status, the courses offered/taken, the credit units completed and the grades obtained in each course.

Must have obtained the equivalent of Cumulative Grade Point Average of at least 3.0

d) Will be permitted to transfer to Makerere University Credits earned but the maximum of Credits should not exceeding 60% of the minimum graduation load of the academic programme applied for.

e) If permitted to transfer she/he should not be allowed to transfer the equivalent of credit units in a course in which she/he obtained a Grade point which was lower than 2.0

f) An application must be accompanied by recommendations from the Institution or Authority she/he is transferring from.

Re-admission after being discontinued due to Weak Academic Performance

a. A student who has been discontinued from studies because of weak academic performance may be permitted to re-apply to another Programme and compete with other applicants for re-admission into first year.

b. A student who applies and gains re-admission after being discontinued due to weak academic performance will not be permitted to transfer Credits earned from previous Academic Programmes.

c. A student who was discontinued or dismissed from his/her studies because of external irregularities will not be considered for re-admission.

Withdrawal

C)

a) A student can apply to his/her respective Board of Studies for permission to withdraw from studies at any time of the semester. Reasons for withdrawal should be given in the letter of application.

b) Permission to withdraw shall be granted by the Faculty/School/Institute Board only on compassionate grounds or in cases of illness or financial constraints serious social or domestic difficulties or exceptional professional commitment which can be demonstrated to have adversely affected the candidate.

c) A student will be allowed only a maximum of two withdrawals on an Academic Programme and each withdrawal shall not exceed a period of one academic year.

d) The period of withdrawal(s) shall not count against the period of candidature for the programme a student is registered for. 14

e) A student who had withdrawn from studies shall apply to his/her respective Faculty/ School/Institute Board to resume studies and shall indicate that the circumstances that made him/her withdraw can no longer affect his/her studies.

f) A student who has overstayed on an Academic Programme by more than 2 (two) years beyond the period of candidature stipulated in the Programme shall be discontinued from his/ her studies at the University.

g) Students should take note that the above regulations do not cover the period of sponsorship. The period of sponsorship is governed by the regulations and policy of the sponsor. In the case of Uganda Government sponsorship, the period is that stipulated in a given Academic Programme.

Approval of Examination Results

i. The Senate has delegated the power to approve all examination results to Boards of Colleges/Faculties/Institutes/Schools. But the results shall not be regarded as final until they are confirmed by Senate on submission of Appropriate Pass Lists to Senate by the relevant Boards. The Appropriate Pass Lists to Senate should be accompanied with Faculty Board Minutes.

ii. Students shall be provided with examination results using the approved testimonial format.

Appeals

Any student or candidate aggrieved by a decision of the Board of his/ her College/ Faculty/ Institute/ School may appeal to the Senate Examinations for reversal or moderation of the decision of the Board.

Procedure for Considering Appeals from Students

i. The Examinations Irregularities Committees of Faculties/Institutes/ Schools shall handle and communicate their decisions to the concerned students. In their communication to a student who may have been DISMISSED, the Examinations Irregularities Committees of Faculties/Institutes/Schools shall mention the following clause "in case you are not satisfied with the verdict you are free to appeal directly to the Senate Examinations Committee"

ii. The Examinations Irregularities Committees of Faculties/ Institutes/ Schools shall communicate the decisions taken to the Senate Examinations Committee for noting.

iii. A student who is not satisfied with the decisions of the Faculty Examinations Irregularities Committees may appeal to the Senate Examinations Committee.

iv. The appeal shall be in writing addressed to the Academic Registrar and copied to the Faculty/School/Institute Committee stating clearly the grounds of appeal. The Academic Registrar shall acknowledge in writing to the student/candidate and Chairperson of Faculty/School/Institute Committee receipt of the appeal.

v. The Senate Examinations Committee Secretariat upon receipts of an appeal will request the respective Faculty/Institute/School to comment on the information in the appeal.

vi. The Senate Examinations Committee shall consider the merits of the students' appeals and handle as appropriate.(see also Rule 8 Procedure for Hearing of Malpractice Cases under Rules on Examination Malpractices and Irregularities)

Publication of Results

The relevant department shall publish Provisional Examination Results of candidates in every examination soon after the meeting of departmental Examination Committee; the Examination Results shall be arranged and published in a manner as prescribed by Senate

Graduation Programme Load

Each College/Faculty/School/Institute Board shall specify the quantity and composition of their Programme Load Requirements for the Award of the Degree/Diploma/Certificate. The composition shall include both Core and Elective Courses.

Earning of Credits in a Course

(a) Each student shall earn Credits for all the Courses specified in the Programme Load for Graduation.

(b) A Credit shall be earned when a student has obtained at least the undergraduate Programmes Pass Mark (50%) in each Course he/she had been assessed in. In other words, NO Credit shall be earned in a Course in which a student has failed the Assessment.

5.35 Classification

For purposes of the classification of Degrees, Diplomas and Certificates (where applicable) the Cumulative Grade Point Average (CGPA) for the various Classes shall be as indicated below:

Class	CGPA
First Class	4.40 - 5.00
Second Class – Upper Division	3.60 - 4.39
Second Class - Lower Division	2.80 - 3.59
Pass	2.0 - 2.79

Awards

The Board of Examiners in a School, Faculty or Academic Institute, upon its satisfaction that the standard required under relevant regulations for the award of a Degree, Diploma, Certificate or other award, as the case may be, has been attained by a candidate in University examinations applicable to him/her, may recommend to the Senate through the relevant Board of a College, School, Faculty, academic Institute that such Degree, Diploma, Certificate or other award be conferred upon or granted to such successful candidate.

Calculation of the Cumulative Grade Point Average (CGPA)

The Cumulative Grade Point Average at a given time shall be obtained by:

(a) Multiplying the grade point obtained in each Course by the Credit Units assigned to the Course to arrive at the Weighted Score for the Course.

(b) Adding together the Weighted Scores for all the Courses taken up to that time.

(c) Dividing the Total Weighted Score by the total number of Credit Units taken up to that time.

Payment of Fees

i. Tuition and other University fees are due on the first day of the academic year. Privately-sponsored students who cannot pay full fees at the beginning of the academic year are required to pay at least 60% of the course load, if they wish by the set deadline.

 ii. First year privately-sponsored student who fails to pay the registration fee at the end of the second week of the beginning of an academic year shall forfeit his/her place in the University
 iii. A continuing privately-sponsored student who shall not have paid fees by the end of

the Sixth week shall be de-registered.

a. Student should complete paying all the University fees by the sixth week of a semester and be registered then.

b. In case a student fails to raise enough money to pay for a full semester load a student can chose courses within the next first six weeks and make payment for the course load he/she can afford and get registered.

c. The minimum course loads to be permitted under this arrangement should be 60% of the total credit units for that semester.

d. Student will not be allowed to pay University fees and register after the end of the sixth week of a semester.

e. Only registered students will be allowed to use University facilities, to attend lecturers, do course work and sit for final examinations.

f. That these measures should take effect from the beginning of 2006/07 academic year.

Refund of Tuition Fees when a Student has withdrawn from Studies.

A student who has been permitted to withdraw from studies shall be refunded the Tuition Fees already paid according to the following schedules:

The time at which a Percentage of Students has withdrawn in the tuition fees a semester already paid to be refunded to the student

By the End of the First Week of a Semester	100%
By the End of the Second Week	80%
By the End of the Third Week of a Semester	60/%
By the End of the Fourth Week of the Semes- ter	40%
By the End of the Fifth Week of a Semester	20%
After the Fifth Week	0%

Fees for Residence, Application, Faculty Requirements, Registration, Examinations, Identity Cards and the Guild charges are not refunded.

In case an Academic Programme to which a student has been admitted is not conducted in a particular academic year, the University will refund the full tuition fees paid by the student.



Architecture

Programme Duration: **5 Years** Graduation Requirement: **164 Credit Units**



Established in 1984, the Department of Architecture has enjoyed a rich and diverse experience in training students from all walks of life both within Uganda and all over East Africa. The educational experience is broadened and enriched by close interaction between the department, professional architects in the field and partner universities like the Norwegian University of Science and Technology (NTNU), The Oslo School of Architecture and the Eastern African architecture schools.

The first cohort was admitted for the Bachelor of Architecture in the Academic Year 1989/1990, with eight students. At the present, the department's annual intake has reached thirty students on average.

The Department seeks to stimulate future architects to think

and learn more widely about their art, about the vast spectrum of sources from which they legitimately can and should draw inspiration, and about the impact that their work will have on the future of the society they are to serve.

Design education in the Department of Architecture is based on the studio model of instruction, with students organized in small groups working directly with staff tutors on guided research and design projects over the length of a full semester.

Members of Staff

Head of Department

Name	Highest Qualification	Status	
Barnabas Nawangwe	PhD	Associate Prof.	
Stephen Mukiibi	PhD	Lecturer/ Head	
Allan Birabi	PhD	Lecturer	
Henry Alinaitwe	PhD	Senior Lecturer	
Assumpta Nnaggenda- Musana	PhD	Lecturer	
Solome Kweyunga	Msc. Arch.	Lecturer	
Amin Tamale Kiggundu	PhD	Lecturer	

Msc. Project Plann. &Mgt.	Asst. Lecturer
M.Arch.	Visiting Lecturer
M.Arch.	Asst. Lecturer
MAHS	Asst. Lecturer
M.Arch.	Asst. Lecturer
Msc.Env. St.	Asst. Lecturer
M.Arch.	Asst. Lecturer
M.Arch.	Part-time Lecturer
B.Arch.	Teaching Asst.
B.Arch.	Teaching Asst.
B.Arch.	Part-time T/A
B.Arch.	Part-time T/A
B.Arch.	Part-time Lecturer
PhD	Part-time Lecturer
	Msc. Project Plann. &Mgt. M.Arch. M.Arch. MAHS M.Arch. Msc.Env. St. M.Arch. B.Arch. B.Arch. B.Arch. B.Arch. B.Arch. B.Arch. B.Arch. B.Arch. B.Arch. B.Arch. B.Arch. B.Arch. B.Arch.

Programme Structure

Code	Name	Туре	Year	Credit Units
ARC1101	Architectural Design Portfolio I	Core	1	5
ARC1102	Architectural Design Fundamentals I	Core		4
ARC1103	Theory of Architecture I	Core		2
ARC1104	Building Technology and Services I	Core		3
TEC1101	Communication Skills for Technology	Core		3
EMT1103	Mathematics for Architecture	Audited		
ARC1201	Architectural Design Portfolio II	Core		5
ARC1202	Architectural Design Fundamentals II	Core		4
ARC1203	Theory and Design of Structures I	Core		2
ARC1204	Environmental Building Science I	Core		2
ARC1205	History of Architecture I	Core		2
ARC1301	Workshop Practice	Core		2
ARC2101	Architectural Design Portfolio III	Core	2	5

Faculty of Technology

ARC2102	Architectural Design Fundamentals III	Core		4
ARC2103	Theory of Architecture II	Core		2
ARC2104	Building Technology and Services II	Core		3
ARC2106	Introduction to Computers and Architectural Computer Aided Design	Core		1
TEC2101	Sociology for Technology	Core		2
ARC2201	Architectural Design Portfolio IV	Core		5
ARC2202	Architectural Design Fundamentals IV	Core		5
ARC2203	Theory and Design of Structures II	Core		2
ARC2204	Environmental Building Science II	Core		2
ARC2205	History of Architecture II	Core		2
ARC2206	Economics for Architects	Core		2
ARC2301	Industrial Training for Architects I	Core		2
ARC3101	Architectural Design Portfolio V	Core	3	5
ARC3102	Architectural Design Fundamentals V	Core		4
ARC3103	Theory of Architecture III	Core		2
ARC3104	Building Technology and Services III	Core		3
ARC3105	History of Architecture III	Core		2
ARC3106	Architectural Computer-Aided Design	Core		2
ARC3201	Architectural Design Portfolio VI	Core		5
ARC3202	Architectural Design Fundamentals VI	Core		4
ARC3203	Theory and Design of Structures III	Core		2
ARC3204	Construction Management for Architects	Core		2
ARC3205	Environmental Building Science III	Core		2
ARC3301	Industrial Training for Architects II	Core		2
ARC4101	Architectural Design Portfolio VII	Core	4	6
ARC4102	Urban and Regional Planning for Architects	Core		2
ARC4104	Landscape Design	Core		2
ARC4105	Housing Development and Management	Elective		2
ARC4106	Environment and Development for Archi- tects	Elective		2
ARC4107	Computer Aided Design for Architects II	Core		1





ARC4201	Architectural Design Portfolio VIII	Core		6
ARC4202	Interior and Furniture Design	Core		4
ARC4203	Building Design Economics	Core		3
ARC4204	Research Methods for Architects	Audited		
ARC4205	Business Law for Architects	Elective		2
ARC4206	Philosophy for Architects	Elective		2
ARC4301	Industrial Training for Architects III	Core		2
ARC5101	Architectural Project Reports	Core	5	10
ARC5102	Professional Architectural Practice	Core		2
ARC5103	Architectural Project Management	Core		2
ARC5201	Architectural Design Project	Core		15

Career Opportunities

Architects work primarily as designers of buildings and supervisors of their construction. However, the training that architects get allows them to work also as contractors, project managers, graphics designers, industrial designers, interior designers, landscape designers and in many other areas

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Civil Engineering

Programme Duration: **4 Years** Graduation Requirement: **161 Credit Units**



The Department of Civil Engineering was established in 1970 alongside Electrical and Mechanical Engineering with a specific mandate of educating civil engineers in the country to the highest international professional standards.

The Department's Mission Statement is: "To provide quality education in Civil Engineering by support-

ing academic distinction and excellence in teaching, innovative research and technological services in the region."

Eng. Dr. Umaru Bagampadde Head of Department

The major objective in the Department is to exploit the exciting nature of the Civil Engineering profession to address the most basic needs of society. This has been attained through:

- 1. Giving students relevant skills and knowledge;
- 2. Increasing awareness of latest advances in Science and Technology (S&T);
- 3. Educating students on appropriate technology for national development; and
- 4. Inculcating professional ethics into them.

Focus is on harnessing the creativity of civil engineering in conception, planning, designing, constructing, evaluating performance and maintaining physical systems that sustain human enterprise. Students are prepared for professional practice in the major areas of Civil Engineering namely; transportation, water resources and hydraulics, structures, construction management, public health and environmental, and geotechnical engineering.

Since its inception, the Department has administered a four-year undergraduate curriculum providing a broad foundation in the above areas. The courses taught are clustered under mathematics, information & communications technology, technical drawing, technical and support courses, vocational training and design project (group and individual). The curriculum emphasizes provision of a firm theoretical and practical basis in specialty fields. It is envisaged that this leads to producing responsible and well-rounded civil engineers.

Members of Staff

Name of Staff	Highest Qualification	Field of Specialization	Rank
Umaru Bagampadde	PhD	Highway Engineering	Sen. Lecturer/Head
Jackson. A. Mwakali	PhD	Structures	Professor
Ngirane Katashaya	PhD	Water Resources Eng.	Professor
Ngirane Katashaya	PhD	Water Resources Eng.	Professor

Yasin Nakuziraba	PhD	Structures	Sen. Lecturer
Dan Tindiwensi	PhD	Construction Mgt	Sen. Lecturer
Ben Mangeni	PhD	Water Resources Eng.	Lecturer
E. Wozei	PhD	Public Health/ Environ- mental Engineering	Part-time Lecturer
Denis Kalumba	PhD	Geotechnical Engineering	Lecturer
Paul Mujugumbya	MSc	Structures	Lecturer
Max Kigobe	MSc	Water Resources Eng.	Assist. Lec.
Charles Niwagaba	MSc	Public Health/ Environ- mental Engineering	Assist. Lec.
Herbert Kalibbala	MSc	Public Health/ Environ- mental Engineering	Assist. Lec.
Michael Kizza	MSc	Water Resources Eng.	Assist. Lec.
Moses Matovu	MSc	Structures	Assist. Lec.
Ronald Musenze	MSc	Public Health/ Environ- mental Engineering	Assist. Lec.
James Semuwemba	MSc	Public Health/ Environ- mental Engineering	Assist. Lec.
Robinah Kulabako	MSc	Public Health/ Environ- mental Engineering	Assist. Lec.
Martin Tumutungire	MSc	Water Resources Eng.	Assist. Lec.
May Namutebi	MSc	Highway Engineering	Assist. Lec.
Gilbert Kasangaki	MSc	Geotechnical Engineering	Assist. Lec.
Apollo Buryegyeya	BSc	Water Resources Eng.	T/Assist
Geoffrey Muyonjo	BSc	Construction Mgt	T/Assist
Richard Kizza	BSc	Geotechnical Engineering	T/Assist
Feriha Mugisha	BSc	Water Resources Eng.	T/Assist
Keneth Munina	MSc	Water Resources Eng.	Assist. Lec.
Albert Rugumayo	PhD	Water Resources Eng.	Part-time Lecturer
Michael M. Odongo	PhD	Highway Engineering	Part-time Lecturer
Hillary Bakamwesiga	MSc	Environmental mgt	Assist. Lec.
John Clifton			Surv/Assist
John Bampata			Chief Technician

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Fred Mukasa	Lab Technician
Ivan Rwendeire	Senior Technician
Yunus Kigongo Luswa	Lab Technician
Jimmy Besigye	Lab Technician II
Mugeni Wandera	Lab Assistant
Byaruhanga M. Teddy	Secretary
Joseph Kanamwanje	Lab Attendant
Ritah Nakazibwe	Lab Attendant
Emily Busingye	Cleaner/Messenger

Programme Structure

Code	Name	Туре		Credit Units
EMT1101	Engineering Mathematics I	Core	1	4
CIV1101	Civil Engineering Drawing	Core		3
CIV1102	Introduction to Civil Engineering	Core		3
EMT1104	Information Communication Technology I	Core		4
CIV1103	Statics and Dynamics for Civil Engineers	Core		3
TEC1101	Communication Skills for Technology	Core		3
EMT1201	Engineering Mathematics II	Core		4
CIV1201	Strength of Materials	Core		4
EMT1202	Information Communication Technology II	Core		4
CIV1202	Fluid Mechanics for Civil Engineers	Core		3
CIV1203	Electrical Engineering for Civil Engineers	Core		3
TEC1301	Workshop Practice	Core		2
EMT2101	Engineering Mathematics III	Core	2	4
CIV2101	Theory of Structures I	Core		3
CIV2102	Engineering Geology	Core		3
CIV2103	Engineering Surveying I	Core		4
CIV2104	Hydraulics	Core		4
CIV2105	Thermodynamics for Civil Engineers	Elective		2

TEC2101	Sociology for Technology	Elective		2
EMT2201	Engineering Mathematics IV	Core		3
CIV2201	Soil Mechanics	Core		4
CIV2202	Theory of Structures II	Core		3
CIV2203	Civil Engineering Materials	Core		4
CIV2204	Engineering Surveying II	Core		4
CIV2205	Economics for Civil Engineers	Elective		3
EMT2202	Information Communication Technology III	Elective		3
CIV2301	Industrial Training for Civil Engineers I	Core		2
CIV3101	Organizational Theory for Engineers	Core	3	3
CIV3102	Design of Structures I (Concrete)	Core		4
CIV3103	Highway Engineering	Core		4
CIV3104	Hydrology I	Core		4
CIV3105	Construction Technology	Core		3
CIV3106	Civil Engineering Environmental Chemistry	Elective		3
CIV3107	Principles of Quantity Surveying	Elective		3
CIV3201	Foundation Engineering	Core		4
CIV3202	Group Civil Engineering Project	Core		4
CIV3203	Design of Structures II (Steel)	Core		4
CIV3204	Water Resources Engineering II	Core		4
CIV3205	Public Health Engineering I	Core		4
CIV3301	Industrial Training for Civil Engineers II	Core		2
CIV4100	Civil Engineering Project I	Core	4	2
CIV4101	Civil Engineering Management	Core		3
CIV4102	Civil Engineering Infrastructure Maintenance	Elective		3
CIV4103	Traffic and Transportation Engineering	Core		3
CIV4104	Public Health Engineering II	Core	1	4
CIV4105	Design of Structures III(Timber and Masonry)	Elective		3
CIV4106	Hydrology II	Elective		3
CIV4200	Civil Engineering Project II	Core		4
CIV4201	Civil Engineering Law	Core		4
CIV4202	Water Resources Engineering II	Elective		3
CIV4203	Civil Engineering Economy	Core		3
CIV4205	Geotechnical Engineering	Elective		3 26

CIV4206	Civil Engineering Environmental Quality Management	Elective	3
CIV4207	Water Transmission and Distribution	Elective	3
CIV4208	Waste Water Treatment and Management	Elective	3
CIV4209	Human Resources Management & Entrepre- neurship	Elective	3

Career Opportunities

Civil engineers can work in diverse fields, including civil engineering (roads, bridges, tunnels, dams, etc.), structural engineering (structural safety of buildings and other structures), environmental engineers (waste water, flood mitigation, etc.) water engineers and others. Civil engineers can also work as consultants, in government ministries and local governments, with NGOs, banks, international development organizations, etc.

Lab Equipment



Computer Engineering

Programme Duration: **4 Years** Graduation Requirement: **144 Credit Units**



Computer engineering is a discipline that applies principles of physics and mathematics to the design, implementation, and analysis of computer and communication systems. The discipline is broad, spanning topics as diverse as radio communications, coding and encryption, computer architecture, testing and analysis of computer and communication systems, vision, and robotics.

A defining characteristic of the discipline is its grounding in physical aspects of computer and communication systems. Computer engineering concerns itself with development of devices that exploit physical phenomena to store and process information, with the de-

Dr. S.S Tickodri -Togboa Head of Department

sign of hardware that incorporates such devices, and with software that takes advantage of this hardware's characteristics. It addresses problems in design, testing, and evaluation of system properties, and security. It is an exciting area to work in, one that has immediate impact

such as reliability, and security. It is an exciting area to work in, one that has immediate impact on the technology that shapes society today.

The prospective Computer Engineering Department (currently Sub-Department of Engineering Mathematics) offers the Bachelor of Science in Computer Engineering programme. In Uganda today, there is a proliferation of computer systems and related products manifested in the Banking, Health, and Telecommunications Sectors, as well as in the Automobile, Service and Manufacturing Industries. The Computer Engineers trained on this programme will provide an invaluable human resource for commissioning, supporting, development, and maintenance of the systems. One of the major focuses of this programme is to produce entrepreneurship-oriented graduates who are capable of propping up new companies, out of the prototypes that they will have developed at the undergraduate level. This demands that the final year projects should benchmark world class standards, capable of leading to Computer Engineering incubations.

Members of Staff

Dr. S.S. Tickodri-Togboa	Associate Professor/Head	PhD
Eng. Dr. Peter Okidi Lating	Lecturer	PhD
Mr. Ssemukuutu Dominic	Teaching Assistant	BSc
Mr. Wakyiku David	Teaching Assistant	BSc
Mr. Katumba Andrew	Teaching Assistant	BSc
Mr. Mwikirize Cosmas	Teaching Assistant	BSc
Mr. Asiimwe Arthur Tumusiime	Teaching Assistant	BSc

Code	Name	Туре	Year	Credit Units
EMT1101	Engineering Mathematics I	Core	1	4
EMT1102	Information and Communications Technology	Core		4
CMP1101	Electronics I	Core		4
TEC1101	Communication Skills	Core		3
CMP 1102	Computer Engineering Ethics	Core		3
EMT1201	Engineering Mathematics II	Core		4
CMP1201	Computer Programming Fundamentals	Core		4
CMP1202	Electronics II	Core		4
CMP1203	Computer Architecture and Organization	Core		4
ELE1201	Electricity and Magnetism	Core		4
TEC1301	Workshop Practice	Core		2
EMT2101	Engineering Mathematics III	Core	2	4
CMP2101	Software Engineering	Core		4
CMP2102	Electric Circuits and Signals	Core		4
CMP2103	Object Oriented Programming	Core		4
TEC2101	Sociology for Technology	Core		3
CMP2201	Discrete Mathematics and Random Processes	Core		4
CMP2202	Analysis and Design of Algorithms	Core		3
CMP2203	Digital Logic	Core		4
CMP2204	Operating Systems Technologies	Core		4
CMP2205	Computer Networks	Core		4
CMP2301	Industrial Training 1	Core		2
ELE3101	Electromagnetic Fields	Core	3	4
ELE3102	Applied Digital Electronics	Core		4
CMP3101	Database Systems	Core		4
EMT3102	Partial Differential Equations	Elective		4
CMP3103	Computer Games Development	Elective		4
CMP3104	Computer Based Medical Systems	Elective		4
ELE3103	Applied Analogue Electronics	Elective		4
CMP3201	Embedded Systems	Core		4
CMP3202	Human Computer Interaction	Core	-	4

CMP3203	Computer Systems Maintenance	Core		4
CMP3204	Distributed Information Systems	Elective		4
CMP3205	Intelligent Systems	Elective		4
CMP3206	Safety Critical System	Elective		4
CMP3207	Sustainable Energy Systems	Elective		4
CMP3301	Industrial Training II	Elective		2
TEC4101	Research Methods	Core	4	4
CMP4101	Digital Signal Processing	Core		4
CMP4102	Instrumentation and Control Engineering	Core		4
TEC4102	Principles of Management	Elective		3
CMP4103	Computer Systems and Network Security	Elective		3
CMP4104	Digital Image and Video Processing	Elective		3
TEC4201	Entrepreneurship	Core		4
CMP4201	Research Project	Core		4
CMP4202	VLSI Systems Design	Core		4
CMP4203	Lasers and Photonics	Elective		3
CMP4204	Wireless Technologies	Elective		3
CMP4205	Audio and Speech Signal Processing	Elective		3



Career Opportunities

The graduates from this Computer Engineering Programme of Makerere University, Faculty of Technology, 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

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Construction Economics and Management

Programmes: BSc Construction Management, BSc Land Economics, BSc Quantity Surveying



Construction Economics & Management deals with facets of the built environment, primarily economic considerations, management principles, applicable law and the governing science and technology. The department is geared towards capacity building in the areas of planning, designing, construction and management of all types of residential, commercial and industrial developments.

The Construction Economics & Management department at the Faculty of Technology started in 2004 with 67 students. Currently, the student population stands at about 600 students, making the department undoubtedly one of the fastest

Dr. A.G Kerali Head of Department

Three programmes are run under the department, and these

are:

- . Bachelor of Science in Quantity Surveying (BSCQS), 4 years
- ii. Bachelor of Science in Land Economics (BSCLE), 4 years
- iii. Bachelor of Science in Construction Management (BSCCM), 3 years

growing at the faculty.

This department is vindicated by the fact that whereas specialists such as architects and engineers are required in any construction project, eventually the successful physical execution depends on the expertise of those with the appropriate management skills, a command of cost planning and cost management techniques, and a thorough understanding of the administrative and legal aspects of building developments. This is what forms the core of Construction Economics and Management.

It is expected that a graduate who has passed through this department will:

i. Have an excellent understanding of the principles of management, economics, construction technology, and environmental engineering.

ii. Be proficient communicators with well-developed planning and problem-solving skills, able to work positively in a team situation.

iii. Be able to analyze the kinds of problems that will confront senior managers, policy

Members of Staff

Name	Highest Qualification Position	
A.G Kerali	PhD	Sen. Lecturer
A Mbabazi	PhD	Lecturer
S Semwogerere	PhD	Lecturer
N Ajiri	MArch	Asst. Lecturer
C Kimani	MSc	Asst. Lecturer

S Nakintu	MBA	Asst. Lecturer
F Nakimuli	MBA	Asst. Lecturer
G Kermundu	BSc	Part-time Lecturer
R Oroma	MSc	Asst. Lecturer
N Kibwami	MSc	Asst. Lecturer
D Naturinda	MSc	Asst. Lecturer
R Ekyalimpa	MSc	Asst. Lecturer
E Naigaga	MSc	Asst. Lecturer
G Mwesige	MSc	Asst. Lecturer
E Maractho	MA	Asst. Lecturer
S Chemonges	LLM	Asst. Lecturer
S Wamono	MSc	Asst. Lecturer
G Abegnego	MSc	Asst. Lecturer
J Kakitahi	BSc (QS)	Teaching Asst.
B Ashabahebwa	BSc (QS)	Teaching Asst.
A Rugumayo	BSc (QS)	Part-time Lecturer
N Mwanje	BSc (LE)	Teaching Asst.
B B Odongkara	BSc (Civil)	Teaching Asst.
J Semanda	BSc (Civil)	Teaching Asst.
C Onyutha	BSc (Civil)	Teaching Asst.
D Cheptoek	BSc (Civil)	Teaching Asst.

Programme Structure for BSc Construction Management

Duration: **3 years** Graduation Requirements: **109**

Code	Name	Туре	Year	Credit Units
EMT1104	Information and Communications Technology	Core	1	4
EMT1105	Mathematics for Surveyors and Construction Managers	Core		4
CMG1101	Building Science I	Core		4
CMG1102	Construction Technology I	Core		4
LEC1103	Microeconomics for Surveyors and Construction Managers	Core		3
TEC1101	Communication Skills for Technology	Core		4

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EMT1203	Statistics for Surveyors	Core		4
CMG1201	Financial Accounting I	Core		4
LEC1205	Construction Drawing for Surveyors	Core		4
CMG1202	Land surveying for Construction Managers	Core		4
LEC1201	Elements of Structural Analysis	Core		4
LEC1203	Macroeconomics for Surveyors	Core		3
LEC1204	Construction Materials for Surveyors	Core		4
TEC1301	Workshop Practice	Core		2
LEC2101	Research Methods and Statistics	Core	2	3
LEC2102	Law of Torts	Core		3
CMG2102	Construction Technology II	Core		4
LEC2103	Principles of Management I	Core		3
TEC2101	Sociology for Technology	Core		3
LEC2104	Development Economics	Core		3
CMG2105	Investment Appraisal I	Elective		3
CMG2104	Construction Management I	Core		4
CMG2106	Business/Commercial Law	Core		3
CMG2201	Labour Law	Core		4
CMG2202	Cost and Value Engineering	Core		4
CMG2203	Measurement/Design Appraisal I	Core		4
CMG2204	Property Studies	Core		3
CMG2206	Maintenance Management	Elective		3
CMG2301	Industrial Training	Core		2
CMG3101	Construction Technology III	Core	3	4
CMG3102	Construction costing	Core		4
CMG3103	Measurement and Design Appraisal II	Core		4
CMG3104	Construction Management II	Core		4
CMG3105	Construction Marketing	Core	200	3
TEC3202	Entrepreneurship for Technology	Core	-	4
CMG3201	Thesis	Core		5
CMG3203	Professional Communication	Core	1	3
CMG3204	Construction Contract Law	Core		3

Programme Structure for BSc Land Economics

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Duration: **4 years** Graduation Requirements: **154**

Code	Name	Туре	Year	Credit Units
EMT1104	Information Communication Technology I	Core	1	4
EMT1105	Mathematics for Surveyors and Construction Managers	Core		4
LEC1101	Physical Environment for Surveyors	Core		3
LEC1102	Basic Law and Governance Structures	Core		3
LEC1103	Microeconomics for Surveyors and Construction Managers	Core		3
TEC1101	Communication Skills for Technology	Core		4
LEC1201	Elements of Structural Analysis	Core		4
LEC1202	Law of Contract for Surveyors	Core		3
LEC1203	Macroeconomics for Surveyors	Core		3
LEC1204	Construction Materials for Surveyors	Core		4
CMG1203	Construction Technology for Surveyors I	Core		4
LEC1205	Construction Drawing for Surveyors	Core		2
LEC1301	Measured Drawing for Land Economists	Core		5
LEC2101	Research Methods and Statistics	Core	2	2
CMG2102	Construction Technology II	Core		4
LEC2102	Law of Torts	Core		3
LEC2103	Principles of Management	Core		3
LEC2104	Development Economics	Elective		3
TEC2101	Sociology for Technology	Core		3
LEC2105	Building Finishes and Fixtures	Core		3
LEC2106	Development Economics	Core		3
LEC2201	Commercial Law	Core		2
LEC2202	Land Economics I	Core		4
LEC2203	Principles of Accounting	Core		3
LEC2204	Environmental Building Services	Core		3
LEC2205	Introduction to Econometrics	Elective		3
LEC2206	Surveying for Construction	Core		3
LEC2207	Real estate Valuation I	Core		3
LEC2205	Introduction to Econometrics	Core		3
LEC2301	Industrial Training	Core		2
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LEC3101	Administrative and Local Government Law	Core	3	3
LEC3102	Real Property Law	Core		3
LEC3103	Land Economics II	Core		4
LEC3104	Maintenance Management	Core		4
LEC3105	Investment Appraisal I	Core		4
LEC3106	Real estate Development	Core		4
LEC3201	Real Property Law II	Core		4
LEC3202	Real Estate Valuation II	Core		3
TEC3202	Enterpreneurship for Technology	Core		4
LEC3204	Property Economics	Core		3
LEC3206	Real Estate Finance and Taxation	Core		3
LEC3205	INVESTMENT APPRAISAL II	Core		3
LEC3301	Industrial Training	Core	4	2
LEC4102	Real Estate Valuation III	Core		3
LEC4103	Professional Practice, Procedure and Ethics	Core		3
LEC4104	Property Management	Core		3
LEC4105	Building Surveying	Core		3
LEC4106	Land Policy Studies	Core		3
LEC4201	Final Year Dissertation I and II	Core		6
LEC4202	Advanced Real Estate Valuation	Core		3
LEC4203	Urban and Regional Planning	Core		3
LEC4204	Facilities Management	Core		3
LEC4205	Property Investment Analysis	Core		3
LEC4206	Property Marketing	Core		3

Programme Structure for BSc Quantity Surveying Duration: **4 years** Graduation Requirements: **154**

EMT1104Information Communication TechnologyCoreIEMT1105Mathematics for Surveyors and Construction ManagersCore3LEC1010Basic Law and Governance StructuresCore3LEC1103Microeconomics for Surveyors and Construction ManagersCore4LEC1104Communication Skills for TechnologyCore4LEC1205Elements of Structural AnalysisCore3LEC1206Iements of Structural AnalysisCore3LEC1207Iements of Structural StructuryorsCore3LEC1208Acoreconomics for SurveyorsCore3LEC1209Construction Materials for SurveyorsCore4CMS1208Construction Technology for SurveyorsCore3LEC1209Resarch Methods and StatisticsCore2LEC1201Resarch Methods and StatisticsCore3LEC1202Law of fortsCore3LEC1203Pinciples of ManagementCore3LEC1204Development EconomicsCore3LEC1205Joulding Finishes and FixturesCore3LEC204Development EconomicsCore3LEC204Parlengles of AccountingCore3LEC205Joulding Finishes and FixturesCore3LEC204Parlengles of AccountingCore3LEC205Parlengles of AccountingCore3LEC206Surveying for ConstructionCore3 <trr<td>LEC206Surve</trr<td>	Code	Name	Туре	Year	Credit Units
EMT1105Mathematics for Surveyors and Construction ManagersCore4LEC1101Physical Environment for Surveyors and Construction ManagersCore3LEC1102Basic Law and Governance StructuresCore4LEC1103Microeconomics for Surveyors and Construction ManagersCore4LEC1201Communication Skills for TechnologyCore4LEC1202Iew of Contract for SurveyorsCore3LEC1203Macroeconomics for SurveyorsCore3LEC1204Construction Materials for SurveyorsCore4LEC1205Construction Technology for SurveyorsCore4LEC1206Construction Technology for SurveyorsCore3UEC1207Research Methods and StatisticsCore2LEC1208Research Methods and StatisticsCore3UEC1209Research Methods and StatisticsCore3LEC1201Sociology for Technology IICore3LEC1202Javing for SurveyorsCore3LEC1203Phinciples of ManagementCore3LEC1204Development EconomicsCore3LEC1205Bilding Finishes and FixturesCore3LEC1204Powelognent EconomicsCore3LEC1205Bilding Finishes and FixturesCore3LEC1206Oromencial LawCore3LEC1207Commencial LawCore3LEC1208Phinciples of AccountingCore3<	EMT1104	Information Communication Technology	Core	1	4
LEC1101Physical Environment for SurveyorsCore3LEC1102Basic Law and Governance StructuresCore3LEC1103Microeconomics for Surveyors and Construction ManagersCore4LEC1201Elements of Structural AnalysisCore3LEC1202Law of Contract for SurveyorsCore3LEC1203Macroeconomics for SurveyorsCore3LEC1204Construction Materials for SurveyorsCore4LEC1205Construction Technology for Surveyors 1Core3LEC1206Construction Drawing for Surveyors 1Core3QUS1301Measured DrawingCore2LEC2102Research Methods and StatisticsCore3LEC2103Principles of ManagementCore3LEC2104Development EconomicsCore3LEC2105Sociology for TechnologyCore3LEC2106Development EconomicsCore3LEC2107Sociology for TechnologyCore3LEC2108Neinding Finishes and FixturesCore3LEC2109Ordenmental Building ServicesCore3LEC2101Sociology for ConstructionCore3LEC2102Principles of AccountingCore3LEC2103Principles of AccountingCore3LEC2104Invironmental Building ServicesCore3LEC2105Introduction to EconometricsCore3LEC2104Invironmental Building S	EMT1105	Mathematics for Surveyors and Construction Managers	Core		4
LEC1102Basic Law and Governance StructuresCore3LEC1103Microeconomics for Surveyors and Construction ManagersCore4LEC1201Elements of Structural AnalysisCore3LEC1202Law of Contract for SurveyorsCore3LEC1203Macroeconomics for SurveyorsCore4LEC1204Construction Materials for SurveyorsCore3LEC1205Construction Technology for Surveyors 1Core4LEC1206Construction Technology for Surveyors 1Core3LEC1207Research Methods and StatisticsCore2LEC2108Research Methods and StatisticsCore3LEC2109Research Methods and StatisticsCore3LEC2101Research Methods and StatisticsCore3LEC2102Law of TortsCore3LEC2103Principles of ManagementCore3LEC2104Development EconomicsCore3LEC2105Building Finishes and FixturesCore3LEC2106Development EconomicsCore3LEC2107Development EconomicsCore3LEC2108Principles of AccountingCore3LEC2109Principles of AccountingCore3LEC2109Principles of AccountingCore3LEC2109Principles of AccountingCore3LEC2109Principles of AccountingCore3LEC2109Principles of AccountingCo	LEC1101	Physical Environment for Surveyors	Core		3
LEC1103Microeconomics for Surveyors and Construction ManagersCoreImage SurveyorsCoreImage SurveyorsImage SurveyorsCoreImage SurveyorsImage Survey	LEC1102	Basic Law and Governance Structures	Core		3
TEC1101Communication Skills for TechnologyCoreLEC1201Elements of Structural AnalysisCore0LEC1202Law of Contract for SurveyorsCore0LEC1203Macroeconomics for Surveyors ICore0CM1203Construction Materials for Surveyors ICore0LEC1204Construction Draving for Surveyors ICore0QUS1303Measured DrawingCore00LEC1204Reserch Methods and StatisticsCore00LEC1205Construction Technology IICore00LEC1204Law of TortsCore00LEC1205AustrofortsCore00LEC1204Development EconomicsCore00LEC1205Sudiding Finishes and FixturesCore00LEC1206Conmercial LawCore00LEC2105Suding Finishes and FixturesCore00LEC2106Conmercial LawCore00LEC2105Condencial LawCore00LEC2106Suding Finishes and FixturesCore00LEC2105Suding Finishes and FixturesCore00LEC2106Condencial LawCore000LEC2106Suding Finishes and FixturesCore00LEC2105Condencial LawCore000LEC2106Condencial LawCore00 <td< td=""><td>LEC1103</td><td>Microeconomics for Surveyors and Construction Managers</td><td>Core</td><td></td><td>3</td></td<>	LEC1103	Microeconomics for Surveyors and Construction Managers	Core		3
LEC1201Elements of Structural AnalysisCore9LEC1202Law of Contract for SurveyorsCore3LEC1203Macroeconomics for SurveyorsCore4LEC1204Construction Materials for Surveyors 1Core4CMG1205Construction Technology for Surveyors 1Core3QUS1301Measured Drawing for Surveyors 2Core2LEC1202Research Methods and StatisticsCore2LEC2103Research Methods and StatisticsCore4LEC2104Construction Technology IICore2LEC2105Jaw of TortsCore3LEC2104Principles of ManagementCore3LEC2105Sociology for TechnologyCore3LEC2106Development EconomicsCore3LEC2107Sociology for TechnologyCore3LEC2108Building Finishes and FixturesCore3LEC2109Commercial LawCore3LEC2101Commercial LawCore3LEC2102Invinomental Building ServicesCore3LEC2103Surveying for ConstructionCore3LEC2104Environmental Building ServicesCore3LEC2105Introduction to EconometricsCore3LEC2105Introduction to EconometricsCore3LEC2105Introduction to EconometricsCore3LEC2105Introduction to EconometricsCore3LEC2105 <td< td=""><td>TEC1101</td><td>Communication Skills for Technology</td><td>Core</td><td></td><td>4</td></td<>	TEC1101	Communication Skills for Technology	Core		4
LEC1202Law of Contract for SurveyorsCore3LEC1203Macroeconomics for SurveyorsCore4LEC1204Construction Materials for Surveyors ICore4CMG1203Construction Drawing for Surveyors ICore3QUS104Measured DrawingCore22LEC2105Research Methods and StatisticsCore22CMG2102Construction Technology IICore23LEC2103Research Methods and StatisticsCore43LEC2104Construction Technology IICore33LEC2105Iaw of TortsCore33LEC2104Development EconomicsCore33LEC2105Sociology for TechnologyCore33LEC2106Development EconomicsCore33LEC2107Conmercial LawCore33LEC2108Conmencial LawCore33LEC2109Conmental Building ServicesCore33LEC2104Environmental Building ServicesCore33LEC2105Surveying for ConstructionCore33LEC2105Introduction to EconometricsCore33LEC2105Introduction to EconometricsCore33LEC2105Introduction to EconometricsCore33LEC2105Introduction to EconometricsCore33LEC2105Introduction to Ec	LEC1201	Elements of Structural Analysis	Core		4
LEC1203Macroeconomics for SurveyorsCore14LEC1204Construction Materials for Surveyors ICore4LEC1205Construction Drawing for Surveyors ICore3QUS1301Measured DrawingCore2LEC2102Research Methods and StatisticsCore2CMG2102Construction Technology IICore4LEC2102Law of TortsCore3LEC2103Principles of ManagementCore3LEC2104Development EconomicsCore3LEC2105Suilding Finishes and FixturesCore3LEC2106Ocnmercial LawCore3LEC2107Conmercial LawCore3LEC2108Conmercial LawCore3LEC2109Suivejng for ConstructionCore3LEC2109Conmercial LawCore3LEC2109Conmercial LawCore3LEC2109Finziples of AccountingCore3LEC2109Conmercial LawCore3LEC2109Suivejing for ConstructionCore3LEC2109Suivejing fo	LEC1202	Law of Contract for Surveyors	Core		3
LEC1204Construction Materials for SurveyorsCore4CMG1203Construction Technology for Surveyors ICore3QUS1304Measured Drawing for SurveyorsCore2QUS1304Measured DrawingCore2LEC2104Research Methods and StatisticsCore2CMG2102Construction Technology IICore4LEC2103Invipies of ManagementCore3LEC2104Development EconomicsCore3LEC2105Suiding Finishes and FixturesCore3LEC2106Oxend Value EngineeringCore3LEC2107Commercial LawCore3LEC2108Invinomental Building ServicesCore3LEC2204Inviping for ConstructionCore3LEC2105Surveying for ConstructionCore3LEC2106Inviping for ConstructionCore3LEC2107Conmercial LawCore3LEC2108Inviping for ConstructionCore3LEC2109Inviping for ConstructionCore3LEC2109Conomics for Property/ConstructionCore3LEC2109Introduction to EconometricsCore3LEC2109Introduction to EconometricsCore3LEC2109Introduction to EconometricsCore3LEC2109Introduction to EconometricsCore3LEC2109Introduction to EconometricsCore3LEC2109Introduction to	LEC1203	Macroeconomics for Surveyors	Core		3
CMG1203Construction Technology for Surveyors ICore14LEC1205Construction Drawing for Surveyors CCore3QUS1301Measured DrawingCore22LEC2101Research Methods and StatisticsCore22CMG2102Construction Technology IICore24LEC2103Principles of ManagementCore33LEC2104Development EconomicsCore33LEC2105Building Finishes and FixturesCore33LEC2106Development EconomicsCore33LEC2107Cost and Value EngineeringCore33LEC2108Principles of AccountingCore33LEC2109Finicples of AccountingCore33LEC2104Environmental Building ServicesCore33LEC2105Surveying for ConstructionCore33LEC2106Surveying for ConstructionCore33LEC2107Introduction to EconometricsCore33LEC2108Introduction to EconometricsCore33LEC2109Introduction to EconometricsCore33LEC2109Introduction to EconometricsCore33LEC2109Introduction to EconometricsCore33LEC2109Introduction to EconometricsCore33LEC2109Introduction to EconometricsCore3 <t< td=""><td>LEC1204</td><td>Construction Materials for Surveyors</td><td>Core</td><td></td><td>4</td></t<>	LEC1204	Construction Materials for Surveyors	Core		4
LEC1205Construction Drawing for SurveyorsCore1QUS1301Measured DrawingCore22LEC2101Research Methods and StatisticsCore22CMG2102Construction Technology IICore44LEC2102Law of TortsCore33LEC2103Principles of ManagementCore33LEC2104Development EconomicsElective33LEC2105Building Finishes and FixturesCore33LEC2106Development EconomicsCore33LEC2107Gost and Value EngineeringCore33LEC2208Principles of AccountingCore33LEC2204Environmental Building ServicesCore33LEC2205Introduction to EconometricsCore33LEC2205Introduction to EconometricsElective33QUS2201Industrial TrainingCore33	CMG1203	Construction Technology for Surveyors I	Core		4
QUS1301Measured DrawingCore2LEC2101Research Methods and StatisticsCore2CMG2102Construction Technology IICore4LEC2102Law of TortsCore3LEC2103Principles of ManagementCore3LEC2104Development EconomicsElective3TEC2105Sociology for TechnologyCore3LEC2106Development EconomicsCore3LEC2107Building Finishes and FixturesCore3LEC2108Development EconomicsCore3LEC2109Cost and Value EngineeringCore4LEC2201Commercial LawCore2LEC2202Principles of AccountingCore3LEC2203Furvionmental Building ServicesCore3LEC2204Surveying for ConstructionCore3LEC2205Introduction to EconometricsElective3LEC2204Introduction to EconometricsCore3LEC2205Introduction to EconometricsCore3LEC2205Introduction to EconometricsElective3LEC2206Introduction to EconometricsElective3LEC2207Introduction to EconometricsSore3LEC2208Introduction to EconometricsElective3LEC2209Industrial TrainingCore3	LEC1205	Construction Drawing for Surveyors	Core		3
LEC2101Research Methods and StatisticsCore222CMG2102Construction Technology IICoreII <tdi< td="">IIIIIIIIIIIIII<tdi< td="">IIIIII<tdi< td="">IIIIIIIIIIIIIIIIIIIII<tdi< td="">IIIIIIIIIIIIIIIIIIIIIIII<tdi< td="">IIIII<!--</td--><td>QUS1301</td><td>Measured Drawing</td><td>Core</td><td></td><td>2</td></tdi<></tdi<></tdi<></tdi<></tdi<>	QUS1301	Measured Drawing	Core		2
CMG2102Construction Technology IICore4LEC2102Law of TortsCore3LEC2103Principles of ManagementCore3LEC2104Development EconomicsElective3TEC2105Sociology for TechnologyCore3LEC2106Development EconomicsCore3LEC2107Building Finishes and FixturesCore3LEC2108Development EconomicsCore3LEC2109Cost and Value EngineeringCore4LEC2201Commercial LawCore3LEC2202Principles of AccountingCore3LEC2203Surveying for ConstructionCore3LEC2204Surveying for ConstructionCore3LEC2205Introduction to EconometricsCore3LEC2205Industrial TrainingCore3	LEC2101	Research Methods and Statistics	Core	2	2
LEC2102Law of TortsCore3LEC2103Principles of ManagementCore3LEC2104Development EconomicsElective3TEC2101Sociology for TechnologyCore3LEC2102Building Finishes and FixturesCore3LEC2103Development EconomicsCore3LEC2104Development EconomicsCore3LEC2105Development EconomicsCore3LEC2104Commercial LawCore4LEC2205Principles of AccountingCore3LEC2206Surveying for ConstructionCore3LEC2205Introduction to EconometricsCore3LEC2205Introduction to EconometricsElective3LEC2205Industrial TrainingCore2	CMG2102	Construction Technology II	Core		4
LEC2103Principles of ManagementCore3LEC2104Development EconomicsElective3TEC2101Sociology for TechnologyCore3LEC2105Building Finishes and FixturesCore3LEC2106Development EconomicsCore3LEC2107Ost and Value EngineeringCore3LEC2208Commercial LawCore2LEC2209Principles of AccountingCore3LEC2204Environmental Building ServicesCore3LEC2205Surveying for ConstructionCore3LEC2205Introduction to EconometricsElective3QUS2301Industrial TrainingCore3	LEC2102	Law of Torts	Core		3
LEC2104Development EconomicsElective3TEC2101Sociology for TechnologyCore3LEC2105Building Finishes and FixturesCore3LEC2106Development EconomicsCore3CMG2202Cost and Value EngineeringCore4LEC2103Commercial LawCore2LEC2204Principles of AccountingCore3LEC2205Environmental Building ServicesCore3LEC2206Surveying for ConstructionCore3LEC2207Leconomics for Property/ConstructionCore3LEC2208Introduction to EconometricsElective3QUS2301Industrial TrainingCore2	LEC2103	Principles of Management	Core		3
TEC2101Sociology for TechnologyCore3LEC2105Building Finishes and FixturesCore3LEC2106Development EconomicsCore3CMG2202Cost and Value EngineeringCore4LEC2010Commercial LawCore2LEC2020Principles of AccountingCore3LEC2040Environmental Building ServicesCore3LEC2050Surveying for ConstructionCore3LEC2051Introduction to EconometricsCore3LEC2052Introduction to EconometricsElective3QUS2051Industrial TrainingCore2	LEC2104	Development Economics	Elective		3
LEC2105Building Finishes and FixturesCore3LEC2106Development EconomicsCore3CMG2020Cost and Value EngineeringCore4LEC2010Commercial LawCore2LEC2020Principles of AccountingCore3LEC20204Environmental Building ServicesCore3LEC20205Surveying for ConstructionCore3LEC20206Leconomics for Property/ConstructionCore3LEC20207Introduction to EconometricsElective3QUS2030Industrial TrainingCore2	TEC2101	Sociology for Technology	Core		3
LEC2106Development EconomicsCore3CMG202Cost and Value EngineeringCore4LEC201Commercial LawCore2LEC2020Principles of AccountingCore3LEC204Environmental Building ServicesCore3LEC205Surveying for ConstructionCore3QUS207Economics for Property/ConstructionCore3LEC205Introduction to EconometricsElective3QUS201Industrial TrainingCore2	LEC2105	Building Finishes and Fixtures	Core		3
CMG2202Cost and Value EngineeringCore4LEC201Commercial LawCore2LEC203Principles of AccountingCore3LEC204Environmental Building ServicesCore3LEC205Surveying for ConstructionCore3QUS207Economics for Property/ConstructionCore3LEC205Introduction to EconometricsElective3QUS201Industrial TrainingCore2	LEC2106	Development Economics	Core		3
LEC2201Commercial LawCore2LEC2203Principles of AccountingCore3LEC2204Environmental Building ServicesCore3LEC2205Surveying for ConstructionCore3QUS2207Economics for Property/ConstructionCore3LEC2205Introduction to EconometricsElective3QUS2301Industrial TrainingCore2	CMG2202	Cost and Value Engineering	Core		4
LEC2203Principles of AccountingCore3LEC2204Environmental Building ServicesCore3LEC2205Surveying for ConstructionCore3QUS2207Economics for Property/ConstructionCore3LEC2205Introduction to EconometricsElective3QUS2301Industrial TrainingCore2	LEC2201	Commercial Law	Core		2
LEC2204Environmental Building ServicesCore3LEC2206Surveying for ConstructionCore3QUS2207Economics for Property/ConstructionCore3LEC2205Introduction to EconometricsElective3QUS2301Industrial TrainingCore2	LEC2203	Principles of Accounting	Core	VL)	3
LEC2206Surveying for ConstructionCore3QUS2207Economics for Property/ConstructionCore3LEC2205Introduction to EconometricsElective3QUS2301Industrial TrainingCore2	LEC2204	Environmental Building Services	Core		3
QUS2207Economics for Property/ConstructionCore3LEC2205Introduction to EconometricsElective3QUS2301Industrial TrainingCore2	LEC2206	Surveying for Construction	Core		3
LEC2205Introduction to EconometricsElective3QUS2301Industrial TrainingCore2	QUS2207	Economics for Property/Construction	Core		3
QUS2301 Industrial Training Core 2	LEC2205	Introduction to Econometrics	Elective		3
	QUS2301	Industrial Training	Core		2

QUS3102	Elements of Property Law	Core	3	3
QUS3103	Housing Development and Management	Core		3
LEC3104	Maintenance Management	Core		4
QUS3105	Quantity Surveying I	Core		4
CMG3101	Construction Technology III	Core		4
QUS3101	Elements of Planning Law	Core		3
QUS3201	Quantity Surveying II	Core		4
TEC3202	Enterpreneurship for Technology	Core		4
QUS3204	Construction Production	Core		3
CMG3204	Construction Contract Law	Core		3
QUS3206	Operations Research Techniques	Core		3
QUS3203	Urban and Regional Planning	Core		3
QUS3301	Industrial Training	Core		2
QUS4102	Construction Technology IV	Core	4	3
QUS4103	Quantity Surveying III	Core		3
LEC4105	Building Surveying	Core		3
QUS4105	Professional Practice, Procedure and Ethics	Core		3
QUS4106	Construction Project Management	Core		3
QUS4201	Final Year Dissertation I and II	Core		6
QUS4202	Quantity Surveying IV	Core		3
QUS4203	Facilities Management	Core		3
QUS4204	Analysis of Prices and Estimation	Core		3
QUS4205	Arbitration and Alternative Dispute Resolution	Core		3
QUS4206	Construction Marketing	Core		3

Career Opportunities

Quantity Surveyors, also known as building economists, are very few in Uganda, yet they play an important role in controlling cost in building construction. Quantity surveyors normally work in consultancy firms, but other avenues of employment include government ministries and local governments, contracting firms, banks, NGOs, development agencies, educational institutions, etc. The programme lasts four years.

Land Economists, also known as Valuers are very important people. They value almost all kinds of properties, including land, buildings, factories, etc. Land Economists are very few in Uganda and yet they are required all over the country, particularly at the districts. Employment opportunities for land economists are immense. They can work in consultancy firms, government ministries, local governments, financial institutions, NGOs, etc. The duration of the programme is four years.

Construction managers are vital for proper management of the construction in Uganda. They can work in government ministries, local governments, contracting firms, consultancy firms and other institutions. This is a relatively new specialization in Uganda and the opportunities are many. The programme lasts three years.



Electrical Engineering

Programmes: Bsc. Electrical Engineering, Bsc. Telecommunication Engineering



Established in 1970, the Department of Electrical Engineering offers a variety of study fields ranging from power systems engineering, electronics, control systems, communication systems, and telecommunications amongst others. Our research and education activities are focused on supporting the technical and commercial needs of society and pushing back the boundaries of current knowledge.

Dr. E Lugujjo Head of Department

The department currently has two programmes; Bachelor of Science in Electrical Engineering and Bachelor of Science in Telecommunications Engineering. For the past six years these two have been the most competitive science programmes at admission not only in the univer-

sity but also the country at large. Each of the programmes has an average annual intake of eighty (80) students. Our specialized facilities like the electronics laboratory, power systems laboratories enable students to have a hands-on experience further enhancing their skills.

Members of Staff

Dr. E. Lugujjo	-	Assoc. Prof and Head of Department
Dr. M.K. Musaazi	-	Senior Lecturer
Ing. L.L.Kaluuba	-	Senior Lecturer
Dr.P. Da Silva	-	Senior Lecturer
Mr. P.Mugisha	-	Senior Lecturer
Dr. D. Okello – Kabagaju	-	Lecturer
Mr. D.Nsubuga-Mubiru	-	Lecturer
Dr.J.Butime	-	Lecturer
Mr. S.Mwanje-Sekiranda	-	Assistant Lecturer
Mr. A.Wasswa-Matovu	-	Assistant Lecturer
Mr. J. Serugunda	-	Assistant Lecturer
Mr. E. Matumbwe	-	Lecturer
Mr. B.Buhanga		Lecturer
Dr. R. Kizito	-	Lecturer
Mr.A.Muguwa	-	Assistant Lecturer
Mr.I.Kitone	-	Assistant Lecturer
Ms. C Ovon	-	Teaching Assistant
Ms. M.Tumbwebaze	-	Teaching Assistant
Ms. S. Mugala-Ndoboli		Teaching Assistant
Mr.A. Tumwesigye	-	Teaching Assistant
Mr. H.Semaganda	-	Teaching Assistant
Mr. P.Mwesiga	-	Teaching Assistant
Mr. P.Bogere	-	Teaching Assistant
Mr. Wasswa-Sebuwufu	-	Teaching Assistant
Ms S Nanziri	_	Personal Secretary

Ms. Josephine Nakato-Kakano	le -	Teaching Assistant	Undergraduate Prospectus 2009/10
Mr. D. Sebbaale	-	Teaching Assistant	
Mr.D. Muzuula	-	Technician I	
Mr. R.Ntege	-	Senior Technician	
Mr.R.Gitta	-	Technician	
Mr. F.Kayizzi	-	Lab Attendant	

Programme Structure for BSc Electrical Engineering

Programme Duration: **4 Years**

Graduation Requirements: 156 Credit Units

Code	Name	Туре	Credit Units	Year
EMT1101	Engineering Mathematics I	Core	4	1
ELE1101	Circuit Theory	Core	4	
ELE1102	Introduction to Computers	Core	4	
ELE1103	Physical Electronics	Core	4	
TEC1101	Communication Skills for Technology	Core	3	
EMT1201	Engineering Mathematics II	Core	4	
ELE1201	Introduction to Digital Electronics	Core	4	
ELE1202	Electricity and Magnetism	Core	4	
ELE1203	Computer Programming for Electrical Engineers I	Core	4	
ELE1204	Statics and Dynamics for Electrical Engineers	Core	3	
TEC1301	Workshop Practice	Core	2	
EMT2101	Engineering Mathematics III	Core	4	П
ELE2101	Electrical Machines I	Core	4	
ELE2102	Electronic Circuits	Core	4	
ELE2103	Electromagnetics	Core	4	
ELE2104	Electrical Materials I	Core	4	
TEC2101	Sociology for Technology	Core	3	
EMT2231	Engineering Mathematics IV	Core	4	
ELE2201	Power Systems Theory	Core	4	
ELE2202	Electrical Materials II	Core	4	
ELE2203	Network Theory I	Core	4	
ELE2204	Economics for Electrical Engineers	Core	3	
ELE2301	Industrial Training for Electrical Engineers I	Core	2	
ELE3101	Electromagnetic Fields	Core	4	
ELE3102	Applied Analogue Electronics	Elective	4	
ELE3103	Applied Digital Electronics	Elective	4	
ELE3104	Energy Conversion	Elective	4	10

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ELE3105	Energy Utilisation	Elective	4	
ELE3106	Electrical Installation Practice	Elective	4	
ELE3107	Computer Programming for Electrical Engineers	Elective	4	
ELE3109	Engineering Mathematics V	Elective	4	
ELE3108	Principles of Accounts for Electrical Engineers	Elective	3	
ELE3201	Instrumentation	Core	4]
MEC3201	Maintenance Engineering	Core	4	
ELE3202	Control System Engineering I	Elective	4	
ELE3203	Power Electronics	Elective	4	
ELE3204	Communication Engineering I	Elective	4	
ELE3205	Electrical Machines II	Elective	4	
EMT3201	Engineering Mathematics VI	Elective	4	
ELE3206	Business Management for Electrical Engineers I	Elective	3	
ELE3207	Law for Electrical Engineers	Elective	3	
ELE3301	Industrial Training for Electrical Engineers II	Core	2	
ELE4101	Communication Engineering II	Elective	3	IV
ELE4102	Propogation	Elective	3	
ELE4103	Telecommunication Systems I	Elective	4	
ELE4104	Microprocessors	Elective	3	
ELE4105	Power Systems Engineering I	Elective	4	
ELE4106	Network Theory II	Elective	3	
ELE4107	Power System Protection and Coordination	Elective	3	
ELE4108	Business Management for Electrical Engineers II	Elective	3	
ELE4201	Project	Core	6	
ELE4202	Telecommunication Systems II	Elective	3	
ELE4203	Computer Systems Engineering	Elective	3	
ELE4204	Radio Frequency Engineering	Elective	3	
ELE4205	Antennas	Elective	4	
ELE4206	Integrated Circuits Design and Fabrication	Elective	3	
ELE4207	Control Systems Engineering II	Elective	3	_
ELE4208	Power Systems Engineering II	Elective	3	
ELE4209	High Voltage Engineering	Elective	3	
ELE4210	Electrical Installation Design	Elective	3	
ELE4211	Business Management for Electrical Engineers III	Elective	3	

Undergraduate Prospectus 2009/10 Programme Duration: **4 Years** Graduation Requirements: **158 Credit Units**

Code	Name	Туре	Year	Credit Units
EMT1101	Engineering Mathematics I	Core	I	4
ELE1101	Circuit Theory	Core		4
EMT1104	Information Communication Technology I	Core		4
ELE1103	Physical Electronics	Core		4
TEC1101	Communication Skills for Technology	Core		3
EMT1106	Engineering Graphics	Elective		4
EMT1201	Engineering Mathematics II	Core		4
EMT1202	Information Communication Technology II	Core		4
ELE1201	Introduction to Digital Electronics	Core		4
ELE1202	Electricity and Magnetism	Core		4
ELE1204	Statics and Dynamics for Electrical Engineers	Elective		3
TEL1201	Engineering Ethics	Elective		4
TEC1301	Workshop Practice	Core		2
EMT2101	Engineering Mathematics III	Core		4
EMT2104	Information & Communications Technology III	Core		4
ELE2102	Electronic Circuits	Core		4
ELE2103	Electromagnetics	Core		4
ELE2104	Electrical Materials I	Core		4
TEC2101	Sociology	Elective		3
TEC2102	Human Rights and Gender Issues	Elective		3
ELE2201	Power Systems Theory	Core		4
ELE2202	Electrical Materials II	Core		4
ELE2203	Network Theory I	Core		4
ELE2204	Economics For Electrical Engineers	Elective		3
EMT2201	Engineering Mathematics IV	Core		4
TEL2205	Electric Energy Systems	Core		4
TEL2206	Internet Technology	Elective		4
TEL2301	Industrial Training	Core		2
ELE3109	Engineering Mathematics V	Elective		4
ELE3101	Electromagnetic Fields	Core		4
ELE3102	Applied Analogue Electronics	Core		4 42
ELE3103	Applied Digital Electronics	Core		4

Faculty of Technology

TEL3101	Basic Telephony	Core		4
TEL3102	Internet Technology II	Elective		4
TEL3103	Communication Radio Systems	Elective		4
EMT3201	Engineering Mathematics VI	Elective		4
ELE3201	Instrumentation	Core		4
ELE3202	Control System Engineering I	Core		4
MEC3201	Maintenance Engineering	Core		4
ELE3204	Communication Engineering I	Core		4
TEL3205	TV Systems	Elective		4
TEL3207	Mobile Communication Systems	Elective		3
ELE3206	Business Management for EE I	Elective		3
TEL3301	Industrial Training	Elective	IV	2
ELE4101	Communications Engineering II	Elective		4
ELE4102	Propagation	Core		3
TEL4105	Satellite Communications	Elective		3
ELE4103	Telecommunications System I	Core		3
ELE4104	Microprocessors	Core		3
ELE4108	Business Management for Engineers II	Elective		4
ELE4200	Final Year Project	Core		5
ELE4202	Telecommunications Systems II	Core		4
ELE4205	Antennas	Core		4
TEL4202	Computer Systems Engineering and Network	Elective		4
TEL4205	Entrepreneurship	Elective		4
ELE4204	Radio Frequency Engineering	Elective		4
ELE4211	Business Management for EE III	Elective		3

Career Opportunities

Electrical engineers can work as consultants in their own firms and also in government ministries and local governments, power generation, transmission and distribution companies, telecommunications companies, computer companies, factories, institutions of higher learning, etc.

Telecommunications engineers work with telecommunication systems and equiupment and related areas. They can find employment in consultancy firms and in government ministries and local governments, as well as with telecommunications and computer companies, NGOs, banks, factories, institutions of higher learning, etc. Presently, this is one of the fastest growing industries not only in Uganda, but the world over. Employment opportunities are inexhaustible

Undergraduate Prospectus 2009/10

Mechanical Engineering

Programme Duration: **4 Years** Graduation Requirement: **158 Credit Units**



The Mechanical Engineering Department at the Faculty of Technology was started in 1970, making it one of the oldest departments at the Faculty of Technology. The department presently runs only one undergraduate programme, that is, Bachelor of Science in Mechanical Engineering.

Mechanical Engineering is an engineering discipline that involves the application of principles of physics and chemistry for analysis, design, manufacturing, and maintenance of various systems. Subsequently, the students in this department are

Dr. Sebbit Adam Muhammed Head of Department trained to harness existing modern technologies to design, build and analyze mechanical structures and systems such as industrial plant components, industrial equipment and machinery, motor vehicles and heating and cooling systems.

Currently, the Department has the following laboratories and workshops available to its undergraduate students: Mechanical Workshop, Metrology Laboratory, Fluids Laboratory, Thermodynamics Laboratory, Strength of materials Laboratory, Metallurgy Laboratory, Mechanics of Machines Laboratory, Drawing Rooms.

Members of Staff

Name	Highest Qualification	Position
Eng. Dr. Byaruhanga Kadoma Joseph	PhD	Associate Professor
Eng. Dr. Mackay A.E. Okure	PhD	Associate Professor
Eng. Dr. Sebbit Adam M.uhammed	PhD	Senior Lecturer
Eng. Dr. Kariko-Buhwezi Bernard	PhD	Senior Lecturer
Dr. Kucel Samuel Baker	PhD	Senior Lecturer
Eng. Dr. John Baptist Kirabira	PhD	Lecturer
Dr. Okware Ikwa John	PhD	Lecturer
Mr. Nturanabo Francis	MSc	Lecturer
Mr. Kaconco James	Msc	Lecturer

Faculty of Technology

Mr. Mukasa Norbert.	MSc	Assistant Lecturer
Mr. Akovuku Albert	MSc	Assistant Lecturer
Mr. Olupot Wilberforce Peter	MSc	Assistant Lecturer
Ms. Nabuuma Betty	MSc	Assistant Lecturer
Mr. Paul Isaac Musasizi	MSc	Assistant Lecturer
Mr.Mwesigye Aggrey	MSc	Teaching Assistant
Mr. Tumusiime Edmund	BSc	Teaching Assistant
Mr. Lubwama Micheal .	BSc	Teaching Assistant
Mr. Kasedde Hillary.	BSc	Teaching Assistant
Mr. Muwanguzi .Abraham Bumalirivu	BSc	Teaching Assistant
Mr. Olwa Joseph	MSc	Teaching Assistant
Mr. Arinaitwe Joseph	MSc	Teaching Assistant



Programme Structure

Code	Name	Туре	Year	Credit Units
EMT1101	Engineering Mathematics I	Core	1	4
MEC1101	Engineering Drawing	Core		4
MEC1102	Engineering Mechanics I	Core		4
MEC1103	Electrical Engineering for Mechanical Engineers I	Core		4
TEC1101	Communication skills for Technology	Core		3
EMT1201	Engineering Mathematics II	Core		4
MEC1201	Engineering Mechanics II	Core		4
EMT1204	Information and Communications Technology	Core		4
MEC1203	Thermodynamics	Core		4

		Undergradua	te Prospe	ctus 2009/10
MEC1204	Mechanics of Materials I	Core		4
MEC1301	Workshop Practice	Core		2
EMT2101	Engineering Mathematics III	Core	2	4
MEC2101	Fluid Mechanics for Mechanical Engineers I	Core		4
MEC2102	Mechanics of Materials II	Core		4
MEC2103	Computer Aided Design For Engineers	Core		4
TEC2101	Sociology for Technology		3	
MEC2201	Electrical Engineering for Mechanical Engineers II	Core		4
MEC2202	Theory of Machines	Core		4
MEC2203	Computer Programming for Mechanical Engineers	Core		4
MEC2204	Materials Science and Engineering I	Core		4
MEC2205	Fluid Mechanics II	Core		4
MEC2301	Industrial Training for Mechanical Engineers I	Core		2
MEC3101	Materials Science and Engineering II	Core	3	4
MEC3102	Engineering Management	Core		4
MEC3103	Production Engineering I	Core		4
MEC3104	Design of Machine Elements	Core		4
MEC3105	Dynamic Systems Engineering	Core		4
MEC3201	Maintenance Engineering	Core		4
MEC3202	Production Engineering II	Core		4
MEC3203	Product Design and Development	Core		4
MEC3204	Heat Transfer	Core		4
MEC3205	Control Systems Engineering	Core		4
MEC3301	Industrial Training for Mechanical Engineers II	Core		2
MEC4101	Business Management for Mechanical Engineers	Core	4	4
MEC4102	Applied Thermodynamics	Core		4
MEC4103	Production Planning and Control for Mechanical Engineers	Core		4
MEC4104	Mechanical Engineering Project I	Core		2
MEC4105	Renewable Energy Systems	Elective		4
MEC4106	Materials Handling	Elective		4
MEC4107	Welding Technology	Elective		4
MEC4108	Computer Aided Engineering for Mechanical Engineers	Elective		4
MEC4201	Entrepreneurship for Mechanical Engineers	Core		4
				(10)

MEC4202	Environmental Engineering	Core	4
MEC4203	Mechanical Vibrations	Elective	4
MEC4204	Automotive Engineeing	Core	4
MEC4205	Air Conditioning and Refrigeration	Elective	4
MEC4206	Fluid Power Systems	Elective	4
MEC4207	Operations and Project Management for Mechani- cal Engineers	Elective	4
MEC4209	Mechanical Engineering Project II	Core	4

Career Opportunitie.

Mechanical engineers work mainly with machines. They are responsible for most of the gadgets we use in everyday life as well as the large machines that are used in light and heavy industry. Mechanical engineers usually work in factories, but they can also work as consultants in consulting firms or individually. Other avenues of employment for mechanical engineers include government ministries and local governments, power plants, contracting, banks, etc. With the current high rate of growth of the Uganda economy and industrialization, mechanical engineers are assured of a full-filling career at the end of their training.

Surveying

Programme Duration: **4 Years** Graduation Requirement: **154 Credit Units**



Originally a unit in the department of Civil Engineering, the department of Surveying at the Faculty of Technology was established as an independent entity in 1990. The department deals with the inspection, planning, design and implementation of terrestrial boundaries.

Currently, the department runs a single four-year Bachelor of Science in Surveying Programme with a curriculum tailored towards the provision of a sound education with emphasis on the practical land surveying. However, after what is now close to 20 years of existence, the department is expanding and has considered introducing other courses which reflect advancements in surveying and mapping techniques

world-wide. Many of these improved techniques do not exactly

Dr. Moses Musinguzi Head of Department

fit into the traditional definition of land surveying and to this end; the department is in the process of changing its name to the Department of Geomatics and Land Management.

Surveyors generally work as part of a larger team on projects. As such, the surveying department at the faculty of technology places an emphasis on team work and collaboration in the daily execution of the students' curricula. Students are also afforded industrial experience during the recess terms and in this way they are introduced to applying their technical knowledge to practical problems, working individually, or as a team.

Members of Staff

Name	Portfolio
Ms. Adweo Mary	Teaching Assistant
Ms. Asiimwe Christine	Teaching Assistant
Dr. Batungi Nasani	Senior Lecturer
Dr. Gidudu Anthony	Lecturer
Mr. Irumba Richard	Assistant Lecturer
Ms. Kayondo Mazzi Lydia	Assistant Lecturer
Mr. Mugumya Vincent	Lecturer
Dr. Mukiibi-Katende Moses	Part Time Lecturer

Faculty of Technology

Dr. Musinguzi Moses	Lecturer/HOD
Mr. Mwesige Godffrey	Teaching Assistant
Ms. Ngwicarach Pyerina	Technician
Mr. Nsengiyumva Mathias	Office Assistant
Dr. Okia Yafesi	Lecturer
Mr. Orena-Billa Charles	Lecturer
Mr. Otukei Richard	Assistant Lecturer
Mr. Rugumayo Abraham	Part-Time Lecturer
Mr. Turinawe Dickson	Part-Time Lecturer
Ms. Wabineno LiLian Mono	Teaching Assistant
Ms. Tibakunirwa Christine	Secretary

Programme Structure

Code	Name	Туре	Year	Credit Units
EMT1102	Survey Mathematics 1	Core	1	4
SUV1101	Principles of Surveying I	Core		4
SUV1102	Physics for Surveyors	Core		4
SUV1103	Plan Drawing	Core		4
TEC1101	Communication Skills for Technology	Core		4
SUV1104	Natural Environmental Studies	Core		4
SUV1201	Introduction to Advanced Surveying	Core		4
SUV1202	Measurement Science	Core		4
SUV1203	Land Economy	Core		3
SUV1204	Economics for Surveyors	Core		3
SUV1205	Computer Studies for Surveyors	Core		4
SUV1206	Engineering Surveying	Core		3
SUV1301	Survey Camp	Core		4
EMT2102	Survey Mathematics II	Core		4
SUV2101	Cartography	Core	2	3
SUV2102	Building Economics 1	Core		3
SUV2103	Land Economy II	Core		3
10				

Undergraduate Prospectus 2009/10

TEC2101	Sociology For Technology	Core		3
SUV2104	Map Projections	Core		4
SUV2201	Principles of Landscape Design	Core		4
SUV2202	Photogrammetry I	Core		4
SUV2203	Hydrographic Surveying	Core		3
SUV2204	Computer Studies II	Core		4
SUV2301	Field Training for Surveyors I	Core		2
EMT3101	Survey Mathematics III	Core		4
SUV3101	Survey Adjustments I	Core	3	4
SUV3102	Land Registration	Core		3
SUV3103	Photogrammetry	Core		4
SUV3104	Physical Geodesy	Core		3
SUV3105	Research Methods for Surveyors	Elective		3
SUV3201	Geographical Information Systems	Core		4
SUV3202	Survey Adjustments II	Core		4
SUV3203	Geometrical Geodesy	Core		3
SUV3204	Building Economics II	Elective		3
SUV3206	Remote Sensing	Elective		3
SUV3301	Field Training for Surveyors II	Core		2
SUV4101	Land Development	Core	4	4
SUV4102	Cadastral Surveying	Core		4
SUV4103	Professional Practice for Surveyors	Core		4
SUV4105	Survey Project	Core		3
SUV4104	Geodetic Astronomy	Elective		3
SUV4201	Business Management for Surveyors	Core		4
SUV4202	Satellite Geodesy	Core		4
SUV4203	Survey Project	Core		3

Career Opportunities

Surveyors are crucial in land management issues. Some of the more practical tasks they perform include opening of boundaries, topographical surveys, mapping, etc. Their services are very important to civil engineers and architects. Surveyors can work as consultants as well as in government ministries and local governments

Recommended Faculty Requirements

These requirements may vary slightly per programme.

Equipment for First years

ltem	Amount (UGX)
Calculator	40,000/=
Overall	25,000/=
Three Set Squares	75,000/=
French Curves	40,000/=
Technical Pen Set	100,000/=
Compass Set	100,000/=
Drawing Ink	10,000/=
Three Log Books	15,000/=
Diskettes (10)	40,000/=
Toolkits	75,000/=
Griding Goggles	15,000/=
Sliding Calipers	30,000/=
Letter Stencils	60,000/=
Rain Coats	35,000/=
Gum Boots	15,000/=

Total

675,000/=

Industrial Training

Item
Transport to firms
Insurance
Medical Expenses
House Rent (90 days)
Daily Transport to firms
(90 days x 1,200)
Compass Set
Two Log Books
Report Writing
One Ream-Ruled Paper
One Ream-Typing Paper
Typing
Drawing Paper
Transport (Firm to Campus)
Diskettes (4)

10,000/=	
25,000/=	
40,000/=	
75,000/=	
108,000/=	
90,000/=	
10,000/=	
10,000/=	
10,000/=	
30,000/=	
30,000/=	
10,000/=	
75,000/=	

Amount (UGX)

458,000/=

Final Year Project

ltem	Amount (UGX)
Travel to sites (30 trips @ 5,000 each)	150,000/=
Accommodation	30,000/
Diskettes (3)	15,000/=
Toolkits	75,000/=
Prototype Construction Materials	160,000/=
Project Production	
One Ream Ruled	10,000/=
One Ream Typing	10,000/=
Drawing Tracing Paper (10)	
Secretarial Services	50,000/=
Photocopying	20,000/=
Covers	5,000/=
Binding	10,000/=
Photocopying Drawing Paper	15,000/=
Total	585,000/=

Government Sponsorsed Students

Government sponsored students may be given the following facilitation toward the above requirements.

Year One Equipment Facilitation	UGX 270,000
Industrial Training	UGX 225,000
Final Year Project	UGX 265,000

Total

FINITE ELEMENT ANALYSIS	FINITE ELEMENT ANALYSIS	FINITE ELEMENT ANALYSIS	Network Modeling, Simulation, and Analysis	Network Modeling, Simulation, and Analysis	PROCESSING	buird DIGITAL SYSTEMS 35 € 400	PALLY DIGITAL SYSTEMS RAS AUTON BUGITAL SYSTEMS	POUTOR DIGITAL SYSTEMS	PREPARING ENGINEERING DOCUM JWN 29990 808 PREPARING ENGINEERING DOCUM S4N 29990 808	<image/>











Academic Records Management

System (ARMS) Project



ARMS stands for Academic Records Management System, a web-based tool geared at satisfying Makerere's dire need for a computer-based system to support the university's logical and physical academic infrastructure. The breeding ground of this initiative has already been identified as the faculty of technology, which also doubles as the project's prime test center. The Project is part of the ICT systems-based knowledge management and deployment advocacy. It is partly funded through the Department of Engineering Mathematics by the Faculty of Technology. The project strategic goals are:

Development of a comprehensive user-centric Academic Records Management System to support the university's logical and physical academic infrastructure using state-of-the-art technologies and current generation industrial aesthetics.

Supporting the provision of relevant learning experiences for students in the Faculty of Technology at Makerere University- Project-Based Learning(Equal Opportunities for Girl and Boy Child)-Adding Value to the Pedagogical Experience





Currently, the core project team is comprised of 13 students at the faculty of technology, including eight fourth year students: Andrew Muyanja, Arthur Nakkaka, Catherine Nassimbwa, James Onyango Oloo, Maxima Nsimenta, Perez Kakaire, Titus Busulwa and Tom Clement Oketch; and five second year students: Joshua Tendo, Lyllian Nakasujja, Simon Peter Miyingo, Nakiganda Agnes Marjorie and Pauline Korukundo. This student team works hand in hand with an Industrial Expert Albert Lumu giving the team direction on the stateof- the-art and industrial standard trends, tools and technology.

The day to day activities are planned, monitored and evaluated by the Operations Manager, the famed Paul Isaac Musasizi an Assistant Lecturer. This structure is further reinforced by the Faculty of Technology's management team, led by the dean, Arch. Dr. B. Nawangwe. Besides being on the brink of providing a much-anticipated solution, the project also boasts of being amongst a handful that have been able to build capacity by exposing and exploiting what would have otherwise been underutilized students' potential.

A competent application development team has been built from scratch, which can undoubtedly compete with the best in the industry. Students have managed to develop highly specialized skills in the fields of Systems analysis, User experience design, Application and database programming, Data acquisition, Testing & quality assurance as well as software documentation. Clearly, this is the way forward for Makerere University.

visit http://arms.mak.ac.ug

The iLabs@MAK Project led by Prof. S.S Tickodri Togboa is carried out in collaboration with Massachusetts Institute of Technology with the goal of developing Internet Laboratories (iLabs) to supplement the conventional ones. The Project engages Undergraduate and Graduate students in research geared towards development of online experiments. iLabs offer a flexible and convenient experimentation platform to an unlimited number of users, thus alleviating space and scheduling problems associated with increasing student numbers. For more information about the iLabs@MAK,

visit http://ilabs.mak.ac.ug



abs conference 2008.

Vehicle Design Project

Centre for Research in Energy and

Energy Conservation (CREEC)



Makerere vehicle design project is one of the main innovative projects at the Faculty of Technology, Makerere University. Its main goal is to build and later bring to market an energy efficient electric vehicle with Makerere university campus as a test site.

The project was inspired by vehicle design summit (VDS), a brainchild of MIT in which a group of Technology students participated in building a hybrid vehicle prototype. Its research is fuelled by the desire to innovate and impact society by applying current technologies in solving current transport and energy constraints.

It is currently headed by Dr. S.S Tickodri-Togboa assisted by Eng. Dr. Peter Lating, Mr. Paul Isaac Musasizi and Mr. Dominic Semukuttu.

Its backbone research is undertaken by a group of undergraduate students and its current membership is ; Richard Madanda ELE IV (Dealing with power electronics), Gyagenda Nasser MEC IV (Dealing with vehicle mechanics), Gerald Baguma TEL IV, Diana Kagimba TEL III and Patricia Atungire TEL IV(Dealing with control and data communication) The centre for Research in Energy and Energy Conservation is a research, consultancy and training organization based at the Faculty of Technology, Makerere University. CREEC was founded in 2001 with the goal of developing into a centre of excellence in energy for Uganda and the entire East African Region.

Our goal is to create capacity in all fields related to energy with a special focus on: Energy management, Solar photovoltaic (PV), Hydropower and Biomass

Our aim is to develop technologies and systems that have a direct, positive impact on people's everyday lives. Along these lines, we promote technology transfer from researchers to society through pilot project implementation, training programmes and public awareness initiatives. This is done in order to bridge the missing link between researchers, the business community, funding agencies and the general public. Activities and Services

Upcoming Projects

As a young organization we are constantly developing and exploring new fields. Before the end of 2009 two important projects will be realized by CREEC.

Biomass Research Centre – In order to strengthen our efforts in the field of biomass energy and to improve our research facilities, a new science lab will be opened. The centre is financed by GTZ.

Testing and labeling laboratory – In this new facility we will test and validate electrical materials and equipment for local markets. This is a joint venture with the Ugandan Bureau of Standards (UNBS).

visit http://www.creec.or.ug

MakaPads



The sanitary pads on the market cost more than 2,000 shillings, money that many primary and secondary school girls especially in rural areas cannot afford. Girls and women from economically disadvantaged backgrounds have got reason to smile, thanks to the innovation of Makapads at Makerere University's Faculty of Technology that has developed cheap and efficient sanitary pads made from papyrus.

The dream innovation that is spearheaded by Dr. Moses Musaazi began in 2003 with the objectives to develop a simple, cottage and locally manufactured machine that makes affordable, yet safe sanitary pads and the schoolgirls to be able to buy them at a maximum of US Cents 50, an equivalent of around Ush. 900 for a packet of 10.

The sanitary pads (trademarked Makapads) are the first ones to be made from local materials in Uganda.

According to Dr. Moses Musaazi, the innovation is relevant because earlier research had found that many disadvantaged primary schoolgirls absent themselves during menstrual periods. Those that attend do so under stigma and tension for fearing to soil themselves. The absenteeism leads to poor academic performance and subsequent dropping out of school by the girls. That is how the Makerere University Faculty of Technology came up with this initiative, with the primary objective being to retain primary schoolgirls instead of dropping out of school because of absenteeism during their menstrual periods.

Technology Development and Transfer Center

The Technology Development and Transfer Centre (TDTC) is under the Dean's Office at the Faculty of Technology, Makerere University. TDTC was established in 2002. The main activities of TDTC are development and application of innovative technology, research and technology transfer with the aim of uplifting social-economic development of Uganda in sustainable manner. The TDTC is the backbone link between the community, industry and Faculty of Technology.

Development is not possible without technological transformation of resources. Although Uganda is endowed with abundant natural resources, poverty still persists, particularly in the rural areas. The Government of Uganda, over the past decade put in great effort to improve the standard of living of the rural communities. However, this effort has not been accompanied by a matching transfer of technology to the communities. The TDTC would like to develop capacity in technical, socio-economic, cultural and political aspects of technology transfer from other countries to Uganda, and also within different parts of Uganda.

Objectives

• To create capacity at Makerere University for development/adoption of intermediate technologies for rural and urban development.

• To spearhead applied research in technology and commercialization of research output and development of spin off companies

- To assess and transfer technologies to stakeholders.
- To develop a human resource base for technology transfer at the national level.

• To contribute to the alleviation of poverty through rational use of resources in all sectors of industry.

Activities

The main activities of TDTC will be based on basic needs like water supply, housing and poverty alleviation and sustainable development. The issues related to both traditional and renewable energy as a catalyst of development will be emphasized. This calls for research in materials and manufacturing processes, among others. These can be achieved through; Product development applied and contracted research Spearheading Faculty of Technology research outreach programme running tailor-made courses for stakeholders Initiating business/technology incubator units Energy and other professional studies

Technology Consults Limited

Community Wireless Resource Center



The Mission of TECO is to provide onestop consulting services in technical areas, combining practical reality with academic thoroughness and excellence.

Eng. Dr. Kariko-Buhwezi Bernard C.E.O



"Our aim of this initiative is to make connectivity more affordable for Telecentres by implementing a communication infrastructure that is shared and managed by the community. Such concept is known as "Community Wireless Network", and it is based on the possibility for groups or communities to build self owned and operated networks. Hence, the projects would be in line with Uganda's rural communication development priority of "affordable communication services for all".

Dr. Dorothy Okello Director

TECO is an independent limited liability company based in the Faculty of Technology, Makerere University. The majority of its shareholders are members of staff in the Faculty of Technology. Incorporated in 1992, it was a result of realization by staff members that while many of them were practicing individually off-campus, they would make a synergetic combination if they combined their wide range of expertise and experience under one umbrella. A tradition of academic thoroughness has therefore been combined with professional experience to produce a company whose culture is verbalized by the motto: Quality and Efficiency.

TECO has successfully completed projects for leading international funding agencies such as the World Bank, The African Development Bank, DANIDA, NORAD, and SIDA/SAREC.

TECO is housed in a very spacious accommodation enabling expeditious production and delivery of assignments using some of the most modern equipment and software. It is fully computerized and owns engineering, architectural design programmes such as AutoCAD, PROKON, MATH-CAD, ACHICAD, WATERWORKS, CIVILWORKS, MOSS as well as spreadsheet and word processing programmes. In addition TECO owns South African quantity surveying software, which enables a faster production of Bills of Quantities. All members of staff at TECO are computer literate and regular users of professional programmes.

visit http://www.teco.co.ug

The Community Wireless Resource Centre (CWRC) is an initiative established under the Department of Electrical Engineering. Initially funded by the International Development Research Centre (IDRC), the primary objective of the CWRC is to provide or enhance sustainable Internet connectivity infrastructure, particularly in rural or under served areas in Uganda, by means of wireless technology. The CWRC seeks to implement and support community wireless networks, train students and technical staff so as to build capacity in design, installation and maintenance of wireless networks, undertake research in the area of community wireless networks, and document and share results widely.

The CWRC contributes to capacity building in the Department of Electrical Engineering through research and through industrial training opportunities. Each year, the CWRC offers up to four positions for industrial training during which period students are taken through the theoretical concepts related to wireless networks and have hands-on training at the CWRC office and associated telecentres. The CWRC also takes on fourth year students doing research projects in areas of concern in the areas of community wireless networks such as bandwidth management, traffic shaping, and propagation. CWRC research and training activities are currently supported by the Millennium Science Initiative (MSI) under the Uganda National Council for Science and Technology and the World Bank as well as the Wireless Africa Initiative. For more information about the CWRC,

visit http://www.tech.mak.ac.ug/cwrc

Uganda Gatsby Trust (UGT)



Uganda Gatsby Trust is a Non-Governmental Organization based at the Faculty of Technology, Makerere University, whose purpose is to support manufacturing and value adding businesses with the potential to grow.

Eng. Dr. Joseph Kadoma Byaruhanga Director Associate Professor, Mechanical Engineering

Eng. Dr. John Baptist Kirabira

Lecturer, Mechanical Engineering



Mr. Babu Talik **Business Services Development Manager Innovations Engineer**

Student Activities

The Trust also implements activities aimed at introducing engineering students to the potential of SMEs for job creation and self-employment: These include:

Student Attachments a)

The Trust enables engineering students to be attached to small-scale enterprises for their industrial training. During industrial training the students are supervised by both the entrepreneur and a University staff. This enables students to appreciate the problems and potentials of the MSEs. As a result, some of them have started up their own micro-enterprises upon graduation and are creating jobs.

b) Student Projects

UGT supports final year engineering students to design and construct appropriate technology proto-types. UGT hopes to transfer the technology thus develop the small sector through the Gatsby Centre for Enterprise Promotion (GCEP).

Gatsby Scholarships C)

The Gatsby Scholarship Scheme was launched in 2004 to sponsor bright engineering students who have not been able get the Government Scholarship. The scheme takes on 16 students each year and provides them with tuition, scholastic materials, and transport, welfare and accommodation expenses.

Technology Development and Transfer d)

The Innovations department was established to develop and disseminate appropriate technology (AT) in Uganda and its main activities include:

- To develop student and other prototypes into marketable technologies.
- To develop new appropriate technologies on a demand-driven basis.
- Link up with SMEs to develop and transfer technology.
- Organize technology exhibitions to facilitate technology transfer.
- e) The Gatsby Demonstration Foundry and Garage

The Trust set up the two facilities with the following objectives:

- To train small scale foundry operators
- Practical training for the engineering students
- As an income generating activity for the Trust •65



Students Associations

Makerere Engineering Society (MES)



Makerere Engineering Society is a student organization of Faculty of Technology whose activities are directed towards fostering student's interests in the Engineering field

It was founded in 1971; the society has played a vital role in shaping the lives and attitudes of several great men and women in this nation by equipping them with interpersonal, leadership, and social skills indispensable in the development of successful careers.

Anthony Mutebi President

The activities of the society evolve around the following aims and objectives as stipulated in the society constitution.

To create a medium of communication between the staff and students

ii. To create a worthy relationship between students and industry

iii. To get in touch with the practicing engineers in the field to help students broaden their technical skills through seminars and workshops.

iv. Create, encourage and perpetuate a sense of togetherness amongst engineering students and students of the faculty of technology at large

v. To protect your rights

vi. To instill in the members a sense of appreciation for the engineering profession and pride for it.

In trying to realize the above aims and objectives, MES has always organized the following events and outputs;

a) Study Tours to Industries and other Countries

b) Seminars and Workshops modulated by Practicing Professionals

- c) Technology Exhibition
- d) The annual Technology Dinner
- e) Technology Brain Game
- f) MES Afternoons
- g) Annual Technology Conference

Affiliation To Uganda Institution Of Professional Engineering

Uganda Institution of Professional Engineers (UIPE) is a nationally recognized body that protects practicing engineers as well as ensuring engineering work is done ethically in the prime interest of public safety. MES currently registers students aspiring for student membership in this great institution.

Makerere Association of Surveying Students (MASS)

Makerere Architecture Students Association (MASA)



It's a students' governed Association based in Faculty of Technology and approaching to twenty (20) years of existence.

It started as an Association for BSc Land Surveying (LS) students only, but now incorporates BSc Quantity Surveying (QS) and BSc Land Economics (LE) as well, to an estimate total number of seven hundred (700) student members.

Kasujja Patrick President

Its objectives include the following;

- Recognizing all BSc QS, LS, LE student as fully registered MASS members and Institution
 of Surveyors of Uganda affiliates.
- $$\ensuremath{\mathsf{Establish}}\xspace$ links world wide regarding exposure of MASS students and the surveying world starting with Africa

 Advocate for student-staff / professional policies and to enhance inter-disciplinary relationships

Affiliation To Professional bodies

Makerere University Association of Surveying Students is affiliated to the Institution of Surveyors of Uganda (ISU), a recognized Surveyors' body in the country together with Surveyors' Registration Board (SRB), responsible for maintaining and upholding all surveyors' code of conduct



Makerere Architecture Students Association is the body that brings together all architecture students at the Faculty of Technology. It is aimed at Bridge the gap between the students and their mentors the tutors and lecturers.

Some of our strategic goals this year are;

i.Organize annual architectural trip. Current destinations due January 2010: Abu Dhabi, Zanzibar, Namibia and Angola

ii. Creating a correlation and cooperation between other universities and ours, namely Kyambogo and Nkozi Universities. Merge both the students and there lecturers, also attend there open days.

iii. Design a magazine owned and run by the students body pertaining details about architecture, there experiences and expectations. Free styling there design interests

iv. Organizing a top notch Open day inviting other universities for the sake of exposure and sharing talent.

v. Have a biweekly newsletter concerning the issues, designs and ideas in our department run by the editorial section of the board.

vi. All in all, be a difference in the Architectural student's body in leadership, organization and change; also create a camaraderie others should follow.

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