

THE TECHNICAL UNIVERSITY OF KENYA







66Education and training for the real world?

UNDERGRADUATE | DIPLOMA | CERTIFICATI

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PROF. FRANCIS W. O. ADUOL | VICE-CHANCELLOR

THE TECHNICAL UNIVERSITY OF KENYA:

EDUCATION AND TRAINING FOR THE REAL WORLD

t is with great pride and pleasure that I welcome you to The Technical University of Kenya (TU-K). We are delighted you nove selected TU-K as the key to unlock your future potential. TU-K is located in the heart of one of Africa's most vibrant and dynamic cities, offering a lively and sophisticated environment in which to learn and grow. As a TU-K student, you will have access to highly credited higher education facilities that will help you realize your full potential. You will also have at your disposal our unique Industrial Based Learning (IBL) program, designed to give you an elevated level of access to the workplace environment to help hone your skills.

TU-K is proud of its heritage as the provider of technological and innovative higher education in Kenya for students from a diverse range of backgrounds. TU-K offers first class facilities, talented and highly qualified staff, student welfare and support services, and comprehensive career development opportunities which have been carefully designed to deliver on our promise of effective and relevant education for the real world.

In the present global scenario, the competitive edge has to be maintained through mounting of applicable programmes, management of resources and by keeping the organizational skills at the cutting edge. The Technical University of Kenya has positioned itself strategically to offer specialized innovative and research programmes which provide significant avenues to the aspiring students for building careers in the globalized environment. I am excited to note that a large percentage of our graduates are engaged in the industrial sector and there is a great demand for their skills on graduation by the industry.

The new intake of students for the 2013/14 academic year will be joining the university in September 2013. This is a very interesting time in the history of TU-K since we have put in place the necessary infrastructure to provide world class technological training. Our training is aimed at supporting research and innovation that would contribute significantly towards the attainment of Vision 2030 and advancement of society. I am confident that you will find it one of the most pleasant technological centers where the efforts of students and staff are synergized to produce the most sought after graduate.

The Technical University of Kenya was granted a charter by the then President, His Excellency Honorable Mwai Kibaki at a ceremony conducted at our main campus on January 15th, 2013. We have retained the strong traditions of practical and hands-on training that were the hallmark of the predecessor institutions, The Kenya Polytechnic University College, The Kenya Polytechnic and The Kenya Technical Institute.

I hope you will enjoy your time at TU-K and wish you every success in your studies.

Mayon

Prof. Aduol

TU-K GETS NEW CHANCELLOR...

Manu Chandaria is the first Chancellor of The Technical University of Kenya, following the award of the charter early in the year.

Dr. Chandaria undertakes to work closely with the University Council and Management and all other stakeholders to ensure that the University keeps to the commitment of providing quality and innovative technological education and training.

The Chancellor is the titular head of the university and shall, in the name of the University, confer degrees and grant diplomas, certificates and other awards of the University. He may from time to time, recommend to the Cabinet Secretary, a visitation of the University. He shall from time to time give advice to the Council which the Chancellor considers necessary for the betterment of the University.



ABOUT DR. MANU CHANDARIA, OBE ,EBS

Dr. Manu Chandaria is a leading Kenyan industrialist and businessman. Along with being the Chairman and CEO of the Comcraft Group of Companies, a billion dollar enterprise that has a presence in over 40 countries, he is also on the boards of several prominent East African companies. He has won several awards in East Africa and internationally in recognition of his entrepreneurial endeavors and is also a noted philanthropist. In 1997,he was awarded honorary degree of Doctor of Science by the UoN in recognition of outstanding achievements in the industrial manufacturing and business sector.

In 2003, Dr.Chandaria was awarded the Order of the British Empire (OBE) by Queen Elizabeth II. In December of the same year, he was awarded the Elder of the Order of the Burning Spear by President Mwai Kibaki, in recognition of his outstanding and distinguished service rendered to the country.

... AS NEW UNIVERSITY COUNCIL IS INAUGARATED

new Council has been established in line with the Universities Act, 2012.

The Council, chaired by Prof. George Eshiwani, has the mandate to manage, supervise and administer the assets of the university. It also decides on capital and recurrent expenditure, receives grants, donations or endowments, and enters into association, collaboration or linkages with

other bodies or organizations within or outside Kenya as the University may consider desirable. Other members are: Dr. Philip T. Parklea, Ms. Bella Ochola Wilson, Ms. Mercy Muthoni Wambugu, Mr. Murunga Protas Ashiro and Mr. Francis Mwaka while Mr. Benard Malenya and Ms. Margaret Muiru represent the Ministries of Education and National Treasury respectively.

PROF. GEORGE ESHIWANI, EBS

Prof. George Eshiwani is a professor of mathematics and has extensive experience in university management having served as the first Principal of the Jomo Kenyatta University College of Agriculture and Technology and later Vice-Chancellor of Kenyatta University. He has also held various leadership positions in international organisations.



PROF. ADUOL APPOINTED VICE-CHANCELLOR

Francis Aduol is the first Vice-Chancellor of The Technical University of Kenya.

The Vice-Chancellor is the chief executive of the University, and in this regard, shall be the academic and administrative head of the University, as well as being the Secretary to the University Council. The Vice-Chancellor also has the overall responsibility for the direction, organization and administration of the functions and programmes of the University.

Prior to this appointment, Prof. Aduol served as Principal of The Kenya Polytechnic University College from October 2008.

He holds a B.Sc. in Surveying and Photogrammetry, MA in Economics and M.Sc. in Surveying, all from the University of Nairobi, and Dr.-Ing. in Geodesy from the University of Stuttgart in Germany.

Prof. Aduol has had an illustrious career as an academic and in university administration. He is a full Professor of Surveying of the University of Nairobi. He has served previously at the University of Nairobi as Chairman of Department of Surveying; Dean, Faculty of Engineering; and Principal, College of Architecture and Engineering. He is a member of the Institution of Surveyors of Kenya and a Licensed Surveyor in Kenya.

THE STRATEGIC FUNCTIONAL AREAS

Technical University of Kenya has organised its functions into three broad areas viz: teaching, learning, and students; research, consultancy, innovation, and inherent enterprise; and networks, partnerships and linkages.

TEACHING, LEARNING, AND STUDENTS

This function shall cover teaching, learning and student welfare.

The main focus here is on the management of academic programmes and student welfare services. The management of academic programmes is carried out principally at two levels; at the broad university level and at the unit level.

The administration is devolved downwards to the lowest level where there would be maximum interaction with both the academic member of staff and the students. Special attention is placed on the provision of student accommodation and catering facilities.

Prof. Paul M. Shiundu

Ag. Deputy Vice-Chancellor

(Teaching, Learning and Students)

Prof. Paul M. Shiundu has received various awards and arants for his

exemplary work in teaching, and research in his area of specialization.

He is a recipient of the Senior Fulbright Scholar Award. Prof. Shiundu

has over twelve years experience in academic and administrative

Prof. Shiundu joined the then Kenva Polytechnic University College

in January 2011, from the University of Nairobi (UoN), where he had

He holds a PhD in Chemistry from the University of British Columbia,

Canada, Post graduate Studies in Natural Sciences from Cantab., UK,

BSc from the University of Nairobi, and a Postdoctoral Fellow from the

served as the Dean - School of Physical Sciences.

work.

University of Utah, USA.

RESEARCH, INNOVATION, AND ENTERPRISE

This function is concerned with two broad areas of activity; research and innovation on one hand and business enterprises and services on the other hand.

As a university, research is a core functions. TU-K, in particular, is expected to engage in research and innovation geared towards the realisation of the national objectives for economic progress and industrialisation as captured in the Vision 2030. The University hopes to reach the wider society with innovations and new research findings.

The University depends largely on Government capitation for its finances. The institution also generates a substantial amount of its funding through income generating activities. It also engages in more sophisticated income generating activities involving high level consultancies, executive programmes of study, and other enterprises.

NETWORKS, PARTNERSHIPS AND LINKAGES

This function is the community service, which in effect is concerned with how the University interacts with the world around it in general ways that are about the University presenting a 'human face' to the community. It comprises partnerships, linkages, community service and extension. Thus as an institution of higher learning, TU-K has established collaborative engagements with industry, research and other institutions of higher learning.

These links provide opportunities for students to acquire industrial experience while still on campus and also enable members of staff to acquire practical experience, which they can then share with the student in the classroom. Further, the institution continues to establish linkages with other institutions of comparable status worldwide that provide opportunities for the exchange of staff and students for both research and learning.



Prof. Michael O. Kachieng'a

Ag. Deputy Vice-Chancellor
(Research, Innovation and Enterprise)

Prof. Michael Kachieng'a is a Chartered Electrical Engineer, Biomedical Engineering Scientist and a Professor of Technological Entrepreneurship, and a Consulting Technological Entrepreneurship, and a Consulting Technological Entrepreneur. He is a member of New York Academy of Sciences International Business Columnist for Financial Journal, Financial Mail and Engineering News (SA). His international activities cover Visiting Professorship and External Examiner appointment at several universities including Alberta Heritage Foundation for Medical Research/Alberta University (Canada) and University of Shanghai (China). He holds a PhD in Biomedical Engineering), BCom (Honours), (Financial Analysis), both from the University of Cape Town and a Masters (Distinction), Electrical Engineering, from Moscow Technological University. He lectures Engineering and Business Financing at postgraduate levels.



Prof. Suki K. K. Mwendwa
Ag. Deputy Vice-Chancellor
(Networks, Partnerships and Linkages)

Prof. Suki Mwendwa holds a PhD in Arch/Social and Cultural Issues from UC Berkeley U.S.A, MA in Human Environment Relations/Interior Design from Cornell University U.S.A, BA in Design, from the University of Nairobi and has a vast knowledge in publications and presentation.

She has over ten years experience in teaching and administration and She has been on a number of parastatal boards, providing the perspective of the Creative arts and Design.

She joined the then Kenya Polytechnic University College in October, 2010, from University of Nairobi (UoN), where she had served as Chairman and Director – School of the Arts and Design.



SCIENCE, TECHNOLOGY AND INNOVATION, THE TECHNICAL UNIVERSITY OF KENYA SETS THE TREND

he Jechnical University of Kenya (TU-K) is a public university located off Haile Selassie Avenue, in the Central Business District of Nairobi. The institution was granted a charter on 15th January, 2013 to become a fully fledged university. Its academic offerings include 66 degree programmes, 78 diploma programmes and 73 certificate programmes. The bulk of the programmes continue to be in engineering and technology, which however are supported by courses in the arts, business, management, and social sciences. Innovation is a major guiding factor in the academic activities at TU-K and is also expected to influence everything the institution is involved in, including teaching and learning.

The Technical University of Kenya currently has 11,950 students of which 5,352 are degree students while 6,598 are Diploma and Certificate students. The student population is drawn from diverse backgrounds. Our approach to training and education ensures that The TU-K graduates have the practical and intellectual skills that are appropriate to the world of work, and these results in high levels of employment. The institution academic units are organised in ten schools within the three Faculties.

The Faculty of Applied Sciences and Technology, which houses the schools of Health Sciences and Technology, Mathematics and Statistics and Pure and Applied Sciences. The Faculty of Liberal and Professional Studies comprises the schools of Business and Management Studies, Creative Arts and Technologies and Hospitality, Tourism Management and Social and Technology Studies, while the Faculty of Engineering and the Built Environment includes schools of Architecture and the Built

Environment, Engineering Science and Technology and Information and Communication Technologies. Outside of academics, students are actively involved in campus life, participating in various clubs and organizations. Our sports teams continue to dominate various national events and competitions. The university has established various programmes to promote the leadership skills and abilities of our students as well as supporting their professional life.

The institution was originally founded in 1956 as the Kenya Technical Institute, later to become the Kenya Polytechnic in 1961. In 2007 the Government upgraded the Kenya Polytechnic to a degree awarding institution, the The Technical University of Kenya as constituent college of the University of Nairobi. Under this new status, the institution was granted the powers to offer education and training at the degree level while at the same time retaining its traditional mandate as a middle level college offering diplomas and certificates. The University College was granted a charter on 15th January, 2013 to become The Technical University of Kenya.

The Technical University of Kenya currently has 11,950 students of which 5,352 are degree students while 6,598 are Diploma and Certificate students. The student population is drawn from diverse backgrounds.

In pursuit of its vision to be a top rate university of technology, TU-K has adopted an innovative approach to education and of significance is its departure from the traditional system of academic work. In its place, TU-K implements a system where it embraces creativity and problem-solving approaches through the Industry Based Learning not found in other institutions. This has placed the university at the leadership apex of Technical and Vocational Education and Training (TVET). The university has some of the best and most modern engineering workshops and science laboratories that enable it to deliver the curricula using the most up-to-date technology.

The Technical University of Kenya corporate culture is based on its core values, the beliefs and behavioural qualities that will not be compromised. TU-K inculcates the virtues of creativity and innovation in the students to make them leaders in their respective fields. The governance and management of the institution is result oriented and customer focused and appreciates the diversity of humanity. TU-K is a new type of university in Kenya, whose mandate shall be to offer higher education and research in technology. The technical university, as a concept, is being created in Kenya with the objective to be a technological force behind the Vision-2030 drive and the general economic development of the nation.



PRESIDENT'S PARTING SHOT ••••

YOU NOW HAVE **POWERS TO READ**AND COMPETE GLOBALLY

"I am convinced beyond reasonable doubt that this university has matured and therefore merits the status of a fully fledged university... I commend the leadership, faculty, staff and students for their role in making this important achievement possible. We also appreciate the University of Nairobi for mentoring this institution.

The Technical University of Kenya has entered the country's development scene at the right time, when industrialization is taking a new shape, and science, technology and innovation have been placed at the centre of the new environment. As a technical university, we expect this institution to continue the drive towards producing highly trained and innovative graduates in areas such as engineering and the built environment, applied sciences and technology.

You have to set standards and compete with other universities globally, as this will not only ensure relevance of your graduates, but also their global competitiveness.

Institutions of higher learning and tertiary education have a critical role to play in the promotion of peace, national unity and harmony. I therefore challenge you to import values that will enable your students to become patriotic, selfless and informative leaders in their communities."

H.E. Mwai Kibaki – Former President of the Republic of Kenya, awarding the University Charter



STUDENT RECREATION,

he Dean of Students office creates a culture of care for students and staff by providing exemplary programmes and services designed to enhance students' academic and personal success. The office provides information, advice and practical help to students on any non-academic problems or issues that might be affecting their studies. We encourage students to contact us if they have a problem, however trivial it may seem. It is our aim to help students succeed in their studies and the sooner problems are addressed the sooner they can concentrate fully on their studies and the more likely they are to achieve their full potential. The Dean's office has professionally trained staff to help them work through the unexpected problems that sometimes catch them by surprise.

The University has various student welfare in existence to support its academic objectives.

ACCOMMODATION

10

The University College does not guarantee accommodation to students many of our students find accommodation with the help of the Dean's office. Further details on accommodation can be found provided by the office.

CAREERS

The college careers service is available to students to provide assistance and information on careers, employment opportunities, further studies and training. The career service also works closely with academic departments to help students to acquire the necessary skills and experience for their future professional lives.

COUNSELLING

Confidential counselling is available if you are distressed or confused about any aspect of your life. Counsellors are based in the counselling centre and also offer regular services at other sites in the University.

BURSARIES

The University provides scholarships to needy students who would otherwise not be able to successfully pursue College Education and realize their full potential.

STUDENTS' UNION

The Students' Union aims are as follows:

- To advance the education of its members
- To promote the general welfare of its members

WELFARE AND SUPPORT

- To encourage student societies, sports and social activities among its members
- To advance the interests of the Union and The Technical University of Kenya as a whole
- To act a channel of communication between its members and TU-K

The Students' Union exists for students and its main priority is to represent its members. They can represent them individually on issues affecting them during their time in the University

Some of the most common issues which come up are:

- Student financial support
- Academic matters

HEALTH SERVICE

The University Health Service provides a full general practitioner service geared to the needs of students and staff of the University

SECURITY

There is a Chief Security Officer who coordinates the security team and collaborates with the relevant local authorities. The security officer also handles police cases involving students in session.

MEDIA SERVICES

Media Services provide a wide range of services and facilities for students and staff to ensure that the benefits of current communication technology are readily available in the University campus in support of learning, teaching and extra-curricular activities.

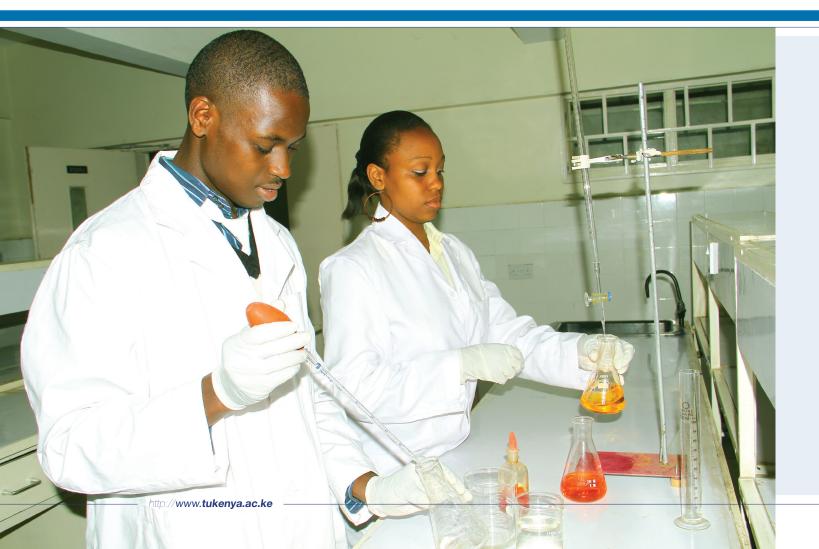
COMPUTING SERVICES

The University College has a substantial programme of investment in computer facilities in order to ensure that all students have access to information and communication technology for research and networking. To ensure that the capacity of computer laboratories for each academic unit is not over stretched, the University College has also encouraged students to purchase lap top computers at subsidised rates. The College has also gone ahead to invest in Internet connectivity by strengthening the ethernet connectivity and expanding the capabilities of wireless connectivity as well. This has seen the set-up of more Internet hotspots in the College.





FACULTY OF APPLIED SCIENCES **AND TECHNOLOGY**





ur wide choice of courses will enable you to specialize in the areas that interest you most. The Faculty of Applied Sciences and Technology is well positioned to teach its own programs, and to provide teaching service to the other Faculties that apply theories of science to concepts in professional courses.

As the reference point for scientific knowledge, the Faculty endeavours to scaffold students to appreciate versatility of science and its application in the real world. We, therefore, simplify the teaching of science by utilizing activity based learning, experimentation and exploration to enhance the use of knowledge in technology development.

We have invested in the state-of-the art laboratories to facilitate achievement of our broader goal—of fostering ties between science and other disciplines, and preparing the minds of scholars by providing a platform from which they could fuse different fields of inquiry to create new knowledge and incubate innovation.

Prof. Michael L. Muia • Executive Dean



PROF. FIONA N. MBA Associate Dean/Head SCHOOL OF HEALTH SCIENCES AND **TECHNOLOGY**

E-mail: hos-shst@kenpoly.ac.ke

DEPARTMENTS/DEGREES FOR SEPT. 2013:

- 1. Department of Biomedical Laboratory Sciences and Technology BSc in Medical Laboratory Sciences
- . B.Phil in Medical Laboratory Technology
- 2. Department of Community and Public Health
- B.Tech (Community and Public Health)
- 3. Department of Nutrition and Dietetics
- B.Tech (Nutrition And Dietetics)
- 4. Department of Pharmaceutical Sciences and Technology



PROF. FRANCIS GATHERI

Associate Dean/Head SCHOOL OF MATHEMATICS AND STATISTICS E-mail: hos-sms@kenpoly.ac.ke

DEPARTMENTS/DEGREES FOR SEPT. 2013:

- 1. Department of Pure and Applied Mathematics
- BSc in Mathematics
- 2. Department of Statistics and Computational Mathematics
- B.Tech in Applied Statistics
- . B.Phil in Technology (Applied Statistics)
- 3. Department of Actuarial and Financial Mathematics



PROF. PAUL BAKI

Associate Dean/Head SCHOOL OF PURE AND APPLIED SCIENCES

Email: hos-spas@kenpoly.ac.ke

DEPARTMENTS/DEGREES FOR SEPT. 2013:

- 1. Department of Biochemistry and Biotechnology B.Tech, B.Phil in Biotechnology, BSc in Biochemistry
- 2. Department of Biological Science and Technology
- B.Tech in Applied Biology, B.Tech in Science Laboratory Technology, B.Phil in Technology (Applied Biology)
- 3. Department of Chemical Science and Technology
- . B.Tech in Applied Chemisty
- 4. Department of Earth Environmental Science and Technology
- B.Tech in Environmental Resource Management, B.Tech in Environmental Science
- 5. Department of Food Science and Technology
- B.Phil. B.Tech in Food Science and Technology
- 6. Department of Technical and Applied Physics
- B.Tech (Technical and Applied Physics)



A. SCHOOL OF HEALTH SCIENCES AND TECHNOLOGY

Health is a basic need... At the School of Health Sciences and Technology, we equip our trainees with skills to ensure that health services are provided in the most timely and professional way.

School of Health Sciences and Technology (SHST) offers training in allied health sciences programs. The school coordinates programs in the four departments, highlighted above, at Diploma and Undergraduate levels. We utilize multi-disciplinary and hands-on, practical, approaches aimed at producing graduates with skills that would allow them to seamlessly adapt in the workforce in this highly technical and specialized field in the allied health sciences. SHST graduates will have the knowledge and skills required to compete favourably in the job market, and a broad opportunity to establish careers in both public and private sectors.

And because health care continues to evolve and improve, the School is committed to being a place where trainees can enhance knowledge and skills which will be translated into efficient and top rated scientists in the health care industry and research. The various programs mounted by the School address existing and emerging challenges in the health care service delivery. ICT, communication skills and entrepreneurship education are an integral component of the courses that we teach in order to enable the graduates we are producing effectively addresses the needs and challenges in their respective professions.

QUICK FACTS ABOUT THE SCHOOL

- The Pharmacy and Poisons Board fully recognises pharmaceutical technology programs offered by The Technical university of Kenya (TU-K).
- At TU-K, hands-on training for health delivery professionals is important and forms part of the curriculum at Certificate, Diploma and Degree levels. Our graduates have, therefore, found it easy to cope with the changing trends in the provision of health care services.
- We offer a unique combination of programs that address professional practices in areas of clinical pharmacy, community health, diet therapy, human psychology, food science and technology, and research.
- The Technical University of Kenya provides innovative teaching practices.
 Distance learning, in the School of Health Sciences and Technology, has already been implemented in selected programs.

1. Department of **Biomedical Laboratory Sciences and Technology**

Biomedical Laboratory Sciences program require advanced technological knowledge in combination with methodological and medical knowledge. Biomedical laboratory Scientists are health science professionals whose central functions are the collection, preparation and analysis of patient samples for evidence-based diagnosis and treatment. Accuracy and honesty in the work of analysis is essential, and is emphasized throughout the course. The department provides students with the knowledge of the principles, theories, methods, and their application in medical laboratory sciences. The program helps students acquire skills that would enable them to easily adapt to the challenges and developments in the discipline. The program also develops skills in health needs assessment, decision-making and action, as well as monitoring and evaluation. The courses offered cover a wide range of topics—spanning from medical parasitology, histocytopathology, medical microbiology, medical virology, medical mycology, physiology, entomology, to clinical chemistry and research methods. We train middle and high level technologists who will be capable of working in public and private laboratories, research institutions, and industry.

COURSES OFFERED:

- Diploma in Technology in Biomedical Laboratory Science
- Bachelor of Science in Biomedical Laboratory Science
- Bachelor of Philosophy in Biomedical Laboratory Science



PROGRAMMES FOR SEPTEMBER 2013

Minimum Qualifications:

BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCES

 Kenya Certificate of Secondary Education (KSCE): Mean Grade C+ (Plus), including C+ (Plus) in relevant subjects

BACHELOR OF PHILOSOPHY in Medical Laboratory Technology

 Higher Diploma in Medical Laboratory Science and KMLTTB registered.

DIPLOMAS IN MEDICAL LABORATORY SCIENCES

• KCSE Mean Grade C (Plain), including C (Plain) in relevant subjects and C- (Minus) in Mathematics or Physics.

Intake: September

uration:

BSc: 11 semesters (4 academic years) **B.Phil**: 4 semesters

Diplomas: 9 terms (3 academic years)

PROPOSED (NEW) COURSES:

- Bachelor of Technology in Medical Laboratory Science
- Master of Science in Medical Laboratory Sciences and, in Medical Laboratory Technology
- Master of Technology in Medical Laboratory Sciences
- Doctor of Philosophy in: Biomedical Sciences Medical Laboratory Science and, in Medical Laboratory Technology

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2. Department of Community and Public Health

The Community and Public Health program examines the importance of creating supporting social, physical, and cultural environments for health. The program addresses the nature of public health information and research, and develops skills in health needs assessment, epidemiology, evidence based decision-making and action, evaluation, partnership, leadership and community engagement. Students' key skills and personal development needs are also addressed.

The program is re-aligned with international and national policies and legislation, which have increasingly emphasized a community and public health agenda focused on population based health and health improvement, health public policy and investment in health, re-orientation and modernization of health services, reduction of health inequalities and social exclusion, health protection and harm minimization, and prevention of ill-health as a means to reduce healthcare costs by improving the health of our population.

CAREER OPPORTUNITIES:

Graduates of the Community and Public Health programs will find exciting career opportunities in both Public and Private Sector health service delivery. These opportunities range from health surveillance, service delivery, and health education. Our graduates are also trained to effectively conduct research in epidemiological field, which has increasingly acquired prominence in national and international disease prevention strategies.

Training in the health records, information and & hospital services management results in the ability to access career opportunities in hospital and healthcare institutions as management technologists and technicians. Health and health systems management training is increasingly becoming a requirement with the expansion and regulation of the insurance and research industry. The not-for-profit sectors offer additional opportunities for our graduates in health advocacy, policy, and research organizations involved in biomedical health research.

COURSES OFFERED:

- Bachelor of Technology in Community and Public Health
- Diploma in Technology in Community and Public Health

PROGRAMMES FOR SEPTEMBER 2013

Minimum Qualifications:

BACHELOR OF TECHNOLOGY (Community and Public Health)

 KCSE Mean Grade C+ (Plus), including C (Plain) in Biology, Chemistry, Mathematics or Physics, and in English or Kiswahili.

BACHELOR OF TECHNOLOGY (POST-DIPLOMA)

 Credit Pass in a relevant Diploma, or Pass in a relevant Diploma—with two years of working experience

DIPLOMA IN TECHNOLOGY (Community and Public Health)

 KCSE Mean Grade C (Plain), including C— (Minus) in relevant subjects, or a Certificate in a related course

DIPLOMA IN TECHNOLOGY (Health Records & Information Technology)

 KCSE Mean Grade C- (Minus), including C- (Minus) in English or Kiswahili, Mathematics, Physics or Physical Sciences, and in relevant subjects; or, a Certificate in a related course, or a Certificate in Health Records and IT or relevant Subject.

Certificate in Health Records & Information Technology

 KCSE Mean Grade D+ (Plus), or current employment in hospital/healthcare industry.

	hospital/healthcare industry.
Intake:	September
Duration:	B.Tech: 8 semesters and 2 semesters of Industry Based Learning (4 academic years) B.Tech: (POST-DIPLOMA): 6 semesters (2 academic years) Diplomas: 8 semesters (3 academic years)

PROPOSED (NEW) COURSES:

- Bachelor of Technology in Environmental Health
- Bachelor of Technology in Health Information Technology
- Postgraduate Diploma •in Public Health
- Master of Science in Community and Public Health

3. Department of **Nutrition and Dietetics**

The Department of Nutrition and Dietetics offers excellent training to Nutritionists, Dieticians and Dietetic technician and technologists by using science to promote healthy eating habits for both preventive and curative management of nutritional disorders. Diet therapy, nutritional research, counselling and education are all within the realm of the nutrition and dietetics profession.

CAREER PROSPECTS

Nutritionists and Dieticians specialize in five main areas: In consultation with physicians and other medical professionals, Clinical Nutritionists and dieticians are involved in the planning and supervision of meals prepared and served to individual patients based on their nutritional needs and preferences; Management Nutritionists and dieticians plan, coordinate, and supervise the planning, purchase, and preparation of food for institutions such as hospitals, health centres, and schools; Research Nutritionists and dieticians study nutrition, food science, and research on alternative foods among other areas of study; Community Nutritionists and dieticians work in government Health centres to provide advice to the community on basic rules of nutrition and improve eating behaviour; Consultant Nutritionists and dieticians counsel patients and perform nutritional screening and assessments on their own patients, or those referred by physician. We train Nutritionists, Dieticians and Dietetic technicians capable of working at skilled nursing facilities, Schools, Hospitals and medical centres, Public health agencies, Research Pharmacies and Chemists.

COURSES OFFERED:

- Bachelor of Technology in Nutrition and Dietetics
- Diploma in Technology in Community and Public Health
- Certificate in Nutrition and Dietetics

PROGRAMMES FOR SEPTEMBER 2013

Minimum Qualifications:	BACHELOR OF TECHNOLOGY (Nutrition and Dietetics) KCSE Mean Grade C+ (Plus), including C+ (Plus) in relevant subjects
	BACHELOR OF TECHNOLOGY (POST-DIPLOMA) Credit Pass in a relevant Diploma, or Pass in a relevant Diploma with two years of working experience
	DIPLOMA IN TECHNOLOGY (Nutrition and Dietetics) KCSE Mean Grade C (Plain), including C— (Minus) in relevant subjects, or a Certificate in a related course
	• KCSE Mean Grade D+ (Plus)
Intake:	September
Duration:	B.Tech: 11 semesters (4 academic years) B.Tech: (POST-DIPLOMA): 6 semesters (2 academic years) Diplomas: 8 semesters (3 academic years)

Certificates: 3 semesters (1 academic year)

PROPOSED (NEW) COURSES:

- Bachelor of Science• in Nutrition and Dietetics
- Master of Science• in Nutrition and Dietetics



4. Department of Pharmaceutical Sciences and Technology

The department offers programs that address acquisition and development of skills, attitudes and knowledge for professional practice in the areas of clinical pharmacy, industrial pharmacy, community pharmacy, and research. The training offered equips students with a strong base of skills to support health care facilities, and engage in pharmaceutical research.

CAREER PROSPECTS:

Pharmacies, Pharmaceutical Companies, Drug regulatory agencies (Pharmacy and Poisons Board), and educational and research institutions

COURSE OFFERED:

Diploma in Pharmaceutical Technology

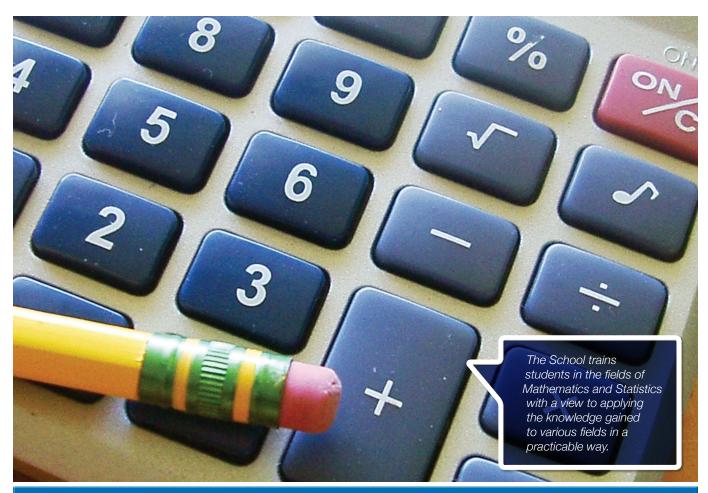
PROGRAMMES FOR SEPTEMBER 2013

Qualifications:	KCSE Mean Grade C (Plain), including C (Plain) in English or Kiswahili, Mathematics or Physics, Chemistry or Physical Science, and Biology or Biological Sciences.
Intake:	September
Duration:	9 terms (3 years).
Mode of Study:	The course is offered on full-time basis only.

DIPLOMA IN PHARMACEUTICAL TECHNOLOGY

PROPOSED (NEW) COURSE:

• Bachelor of Science • in Pharmaceutical Technology



B. SCHOOL OF MATHEMATICS AND STATISTICS

The essence of technology remains vague without a strong **MATHEMATICAL SUPPORT!** Indeed, mathematical support is guaranteed when you join The Technical University of Kenya.



School of Mathematics and Statistics currently has four departments: Actuarial and Financial Mathematics, Pure and Applied Mathematics, Technical and Engineering Mathematics and, Statistics and Computational Mathematics.

CORE MANDATE OF THE SCHOOL

To provide an opportunity to students who wish to pursue different areas of mathematics by increasing their level of competence and preparing them adequately to enable them join the job market.

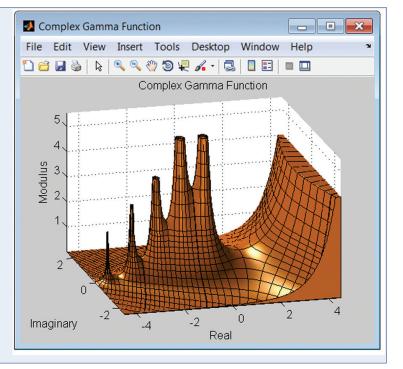
To provide mathematical skills and positive attitudes that cultivates a culture of research and professionalism, and to satisfy industrial and technological demands—nationally, and internationally.

OUR VISION

To be the centre of excellence in teaching mathematics for technological development

QUICK FACTS ABOUT THE SCHOOL

- Actuarial science is a multi-disciplinary professional course concerned with the application of mathematics, statistical, probabilistic, computing and financial theories, and models and skills to solve practical business and financial problems
- Applied statistics is a professional discipline, which is a science as well as an art. It provides theoretical techniques and algorithms for solving real life problems. Many of the business decision making processes are mainly dependent on the results obtained by algorithms.
- Operations research is an interdisciplinary branch of mathematics which
 uses mathematics methods to arrive at optimal decisions to problems
 in maximizing or minimizing things like costs or profits. The eventual
 intention behind using Operations Research is to elicit a best possible
 solution to a problem mathematically, which improves or optimizes the
 performance of the system.
- Mathematics biology or biomathematics is an interdisciplinary field of study. It models natural and biological processes using mathematical techniques and tools. Results have been applied to areas such as cellular neurobiology, epidemic modelling, and population genetics.
- Cryptography is the practice and study of hiding information.
 Cryptography is considered to be a branch of both mathematics and computer science. Not just for spies anymore, cryptography applications include the security of ATM cards and computer passwords



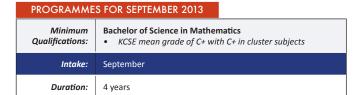
1. Department of Pure and Applied Mathematics

The program in Bachelor of Science in mathematics involves using mathematics theory and logic to solve mathematics related problems. In the degree program, a student may specialize in pure or applied mathematics

The course seeks to provide an opportunity to students who wish to pursue different areas of mathematics by increasing their level of competence and preparing them adequately to enable them join the job market e.g. in banking, and education sector, and also to register for a postgraduate course in their area of specialization.

COURSE OFFERED:

Bachelor of Science in Mathematics



PROPOSED (NEW) COURSES:

- Bridging Course in Mathematics
- Master of Science, in Mathematics- A candidates can specialize in any of the three areas: Pure, Applied and Statistics

2. Department of **Statistics and Computational Mathematics**

The course is intended to produce practical, and hands-on, statisticians with cutting edge computing skills. The graduates are expected carry to our research and apply statistical data analysis to problems in various sectors of the economy. These sectors ordinarily include; research institutions, education, business, industry, financial services, medicine, information technology in the public, corporate, non-governmental organizations, multinationals, and multilateral United Nation bodies.

In line with the country's Vision 2030 national goals, the graduates who are not absorbed in the formal job market should be able to start small-scale consultancy businesses in statistical data analysis.

COURSES OFFERED:

- Bachelor of Technology in Applied Statistics
- Bachelor of Philosophy in Technology (Applied Statistics)
- Diploma in Technology in Applied Statistics

PROGRAMMES FOR SEPTEMBER 2013

Minimum Qualifications:	Bachelor of Technology in Applied Statistics KCSE mean grade of C+ with C+ in cluster subjects Bachelor of Philosophy, in Technology (Applied Statistics) Higher Diploma in Applied Statistics/Actuarial Sciences Diploma in Technology in Applied Statistics KCSE mean grade of C- (minus) with C- (minus) in the relevant cluster subjects
Intake:	September
Duration:	B.Tech: 4 years B.Phil: 2 years Dip.Tech: 2 years

The program is designed to augment the practical skills of the holders of higher diploma qualifications by imparting more mathematical and statistical skills for problem solving. Hence, graduate of this program will be widely schooled in the practical application of the mathematical and scientific principles to solve problems and provide quick solutions in the workplace.

The course is intended to provide a sound foundation in the principles and practice of Statistics with emphasis on Practical data collection, organization, presentation, analysis, and Interpretation

3. Department of **Actuarial and Financial Mathematics**

COURSE OFFERED:

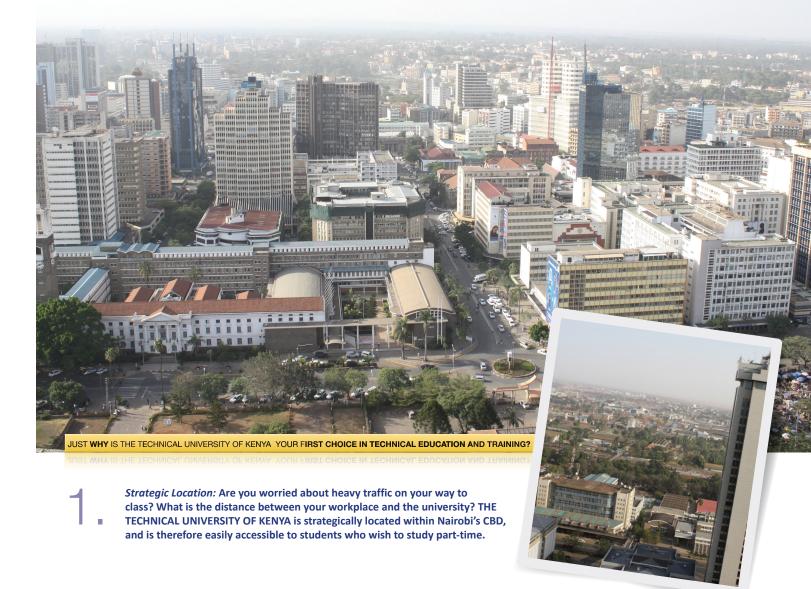
Diploma in Technology in Actuarial Science

The program leading to Diploma in Technology in Actuarial Science is structured to provide practical skills as well as fundamental knowledge of application of Actuarial Science in various fields. Actuarial Science is the profession concerned with the application of mathematical, statistical, probabilistic and financial theories to solve real business problems. These problems involve analyzing future financial events, especially where future payments involved have certain or uncertain timings.

PROGRAMMES FOR SEPTEMBER 2013	
Minimum Qualifications:	Diploma in Technology in Actuarial Science KCSE mean grade of C- (minus) with C- (minus) in the relevant cluster subjects
Intake:	September
Duration:	3 years

PROPOSED (NEW) COURSES:

Bachelor of Technology in Actuarial Science





C. SCHOOL OF PURE AND APPLIED SCIENCES

At The Technical University of Kenya, we intertwine **APPLIED SCIENCES** and **TECHNOLOGY** to solve common problems in society. So, when you train with us, you become part of the solution...

programs within the School include certificates, Diplomas, Bachelor of Technology, and Bachelor of Philosophy. The School has a critical mass of researchers, who are also involved in supervision at Master and Doctorate levels, and is currently leading in publications amongst the Schools in the University. A good number of academic staff within the School participates in many policy-making organs of the Government of Kenya, especially in the areas of Space Science and Technology, and Bio-security and Bio-safety.

QUICK FACTS ABOUT THE SCHOOL

- The Pharmacy and Poisons Board fully recognises pharmaceutical technology programs offered by The Technical university of Kenya.
- At TU-K, hands-on training for health delivery professionals is important and forms part of the curriculum at Certificate, Diploma and Degree levels. Our graduates have, therefore, found it easy to cope with the changing trends in the provision of health care services.
- We offer a unique combination of programs that address professional practices in areas of clinical pharmacy, community health, diet therapy, human psychology, food science and technology, and research.
- The Technical University of Kenya provides innovative teaching practices. Distance learning, in the School of Health Sciences and Technology, has already been implemented in selected programs.



1. Department of **Biochemistry and Biotechnology**

Our training is aligned with the national goals of promoting science technology and innovation. The Department offers training in the fields of both Biochemistry and Biotechnology. We aim to produce innovators and techno-scientists equipped with the fundamental scientific principles, knowledge, and its applications in the areas of Biochemistry and Biotechnology. This is to enable our graduates attain the knowledge of converting ideas into new technologies and be able to come up with new innovations that can lead to product development. This, in turn, will enable our graduates develop biotechnology enterprises which create wealth and employment.

PROGRAMMES FOR SEPTEMBER 2013

Bachelor of Technology in Biotechnology: (Industrial, Medical, and Agricultural Options)

Intake	September		
Duration	3 years		
Bachelor of Philosophy in Technology Biotechnology: (Industrial, Medical, and Agricultural Options)			
Intake	September		
Duration	2 years		
Qualifications	Higher Diploma in Biotechnology		
Bachelor of Science in Bio	Bachelor of Science in Biochemistry: (Industrial, Medical, and Nutrition options)		
Intake	September		
Duration	3 years		
Qualifications	Diploma in Biochemistry		

Diploma in Technology (Biotechnology)		
Intake	September	
Duration	3 years	
Qualifications	C mean Grade with at least a C in Biology, chemistry, Mathematics or physics, and English or Kiswahili	
Diploma in Technology (Biochemistry)		
Intake	September	
Duration	3 years	
Qualifications	C mean Grade with at least a C in Biology, chemistry, Mathematics or physics, and English or Kiswahili	

The Department also offers the following short courses during April, August, and December vacations.

- DNA and Serological Forensics
- Quality Management System (QMS)
- Internal Quality Auditors (IQA)
- Bio-fuel [Bio-Gas, Bio-Diesel, Bio-Ethanol] Production
- Clinical Good Laboratory practices (GCLP)
- Laboratory Bio-safety and Quality assurance (Module I)
- Laboratory Bio-safety and Quality assurance (Module II)
- Microbiological Laboratory Techniques

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THEMATIC AREAS OF RESEARCH

- Diagnostics and forensics
- Manufacturing of drugs and biochemical design
- Bio-production such as vaccines, gene products including proteins and vitamins
- Bio-fuels (Bio-Gas, Bio-Diesel, Bio-Ethanol) production
- Environmental management including bioremediation, and
- Research in areas of medical, agriculture, Biotech-industries.

2. Department of Biological Science and Technology

The Department of Biological science and technology offers Bachelors, Diploma and Higher Diploma, and Certificate courses in Applied Biology and Science Laboratory Technology.

We give our students the tools in applied biology and science laboratory technology to deliver quality services and make quality products that meet the ever changing human needs. We teach them to design, build, evaluate, and improve complex chemical, biological, and material systems. Our biological science technologists and industrial laboratory graduates leave with the knowledge to apply biological, chemical, and physical principles to benefit humanity, protect the environment, and build sustainable futures.

CAREER OPPORTUNITIES:

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Our graduates have found employment as technicians and technologists in laboratories in universities, colleges, secondary schools, hospitals, research institutes, and in the Industries.

PROGRAMMES FOR SEPTEMBER 2013

Bachelor of Technology in Applied Biology (Industrial & Bio-production or Biological Laboratory options)		
Intake:	September	
Duration:	4 years	
Qualifications:	C+ mean grade, and a C in mathematics, Biology, and chemistry, or a TU-K Diploma in Technology in Applied Biology	
Bachelor of Technology in Science Laboratory Technology (Biological, Chemical or Physical option)		
Intake:	September	
Duration:	4 years	
Qualifications:	C+ mean grade, and a C+ in Biology, physics, and chemistry, or a TU-K Diploma in technology in Applied Biology or Dip. Tech in SLT.	

Bachelor of Philosophy in Technology (Applied Biology) [Evening] or [Vacation/E- LEARNING]		
Intake:	September	
Duration:	2 years	
Qualification:	Higher National Diploma	
Diploma in technology ir	Applied Biology (Evening or Vacation /On line)	
Intake:	September	
Duration:	3 years	
Qualification:	KCSE C (PLAIN) with C- in Biology, Maths, Eng. & any othe Science, Certificate in SLT or relevant areas.	
Diploma in technology in Science Laboratory Technology (Industrial option & Biological option) – Vacation or Evening		
Intake:	September	
Duration:	3 years	
Qualification:	KCSE C (PLAIN) with C- in Biology, Maths, Eng. & any othe Science, Certificate in SLT or relevant areas.	
Diploma in technology ir	: Industrial and Applied Biology • Biotechnology	
Intake:	September	
Duration:	3 years	
Qualification:	KCSE C (PLAIN) with C- in Biology, Maths, Eng. & any othe Science, Certificate in SLT or relevant areas.	
Certificate in Science Laboratory Technology (SLT) Evening		
Intake	September	
intake	September	
Duration	1 Year	

THEMATIC AREAS OF RESEARCH:

- Immunology and parasitology
- Drug and vaccine Development for parasitic infections
- Co-infection studies
- Science Laboratory Technology
- Industrial and Bio-production
- Conservation and Wildlife Science
- · Epidemiology, and Biometry



3. Department of Chemical Science and Technology

The Department of Chemical Science and Technology offers Bachelors, Diploma, and Certificate courses in Analytical and Industrial Chemistry. We give our students the tools in Analytical and Industrial Chemistry to deliver quality services and make quality products that meet the ever changing human needs. We teach them to design, build, evaluate, and improve complex chemical, biological, and material systems. Our Chemical Technologists and Chemistry graduates leave with the knowledge to apply chemical and biological principles to benefit humanity, protect the environment, and build sustainable futures.

Careers in chemical Technology are more rewarding today than ever. Technologists are in high demand for bringing valuable skills to the development of new products, processing methods and materials. Chemical technologists work in every aspect of the chemical process industry from basic research to hazardous waste management. Research and development technologists work in experimental laboratories and process control technologists work in manufacturing or other industrial plants. Technologists operate many kinds of equipment and instrumentation, set-up apparatus for chemical reactions, prepare compounds, monitor commercial production, test for product quality, and collect and analyze samples produced through organic synthesis.

Technologists also work in data management, quality assurance, and shipping to provide technical support and expertise for these functions. Consequently, chemical technologists from the The Technical University of Kenya are employed in government research institutions, universities; pharmaceutical and manufacturing companies, and oil companies. The largest number of our chemical technologist, however, get employment in industries such as polymer, biotechnology, consumer products, paint, soap, and fragrance—with well defined career ladders.

The Department of Chemical Science and Technology continues to supply graduates for all of the above careers as well as a host of others. The diversity of the options facing any new graduate means that today's chemist doesn't just wear a white coat!

Bachelor of Technology in Applied Chemisty (Industrial Chemistry or Analytical

PROGRAMMES FOR SEPTEMBER 2013

Chemistry Options)	
Intake:	September
Duration:	8 semesters + 2 IBL semesters
Qualifications:	C+ mean grade (in addition C+ in mathematics, physics and Chemistry) <i>or</i> TU-K Diploma in Technology in Industrial Chemistry or Analytical Chemistry or Equivalent
Diploma in Technology in: Analytical Chemistry • Industrial Chemistry	
Intake:	September
Duration:	6 semesters + 1 IBL semester
Qualifications:	C - (minus) mean grade (in addition C- in mathematics,

Qualifications | Diploma, Degree, Masters in any science field

Advanced Diploma in QC, TQM, QMS [Module 2 only]

Intake: September

Duration: 3 Semesters

Certificate in Applied Chemistry [Module 2 only]	
Intake	September
Duration	3 semesters
Qualification	D+ mean grade (in additional least D+ in Mathematics, Physics and Chemistry)

PROPOSED (NEW) COURSES:

- Bachelor of Technology in Medicinal Chemistry
- Bachelor of Technology in Material Science & Nanotechnology
- Bachelor of Technology in Chemical Process Technology
- Diploma in Technology Chemical Process Technology

THEMATIC AREAS OF RESEARCH:

- Water Technology
- Environmental Chemistry
- Chemical Waste Management
- Environmental Toxicology: investigate toxic effects and impact on ecosystems, aquatic organisms, pesticides residues, heavy metals, and other endocrine disrupters.

4. Department of Earth Environmental Science and Technology

The Department aims to train natural resource managers who can look at the environment in its totality, diagnose environmental resource issues, and suggest sustainable mitigation measures at local, national and global levels. The training is aimed at developing an awareness of the complexities of interrelationships between human and environment, because the way society frames these relationships determines how society allocates and/or conserves its natural resources. We are determined to produce top environmentalists, and environmental technologists and technicians, who will apply their skills innovatively to conserve the environment for sustainable development.

PROGRAM FOCUS: Environmental Resource Management, Environmental Science and Technology, Environmental Planning, Environmental Disaster Management, Geological Sciences, Atmospheric Science, Environment and Community Development, and Integrated Water Resource Management. The programs we offer are tailored to cater for students at various levels from Certificate, Diploma, and Degree to postgraduate.

CAREER OPPORTUNITIES:

Our graduates find employment as research officers, lecturers, environment officers, technologists and technicians in research institutes and environmental agencies such as Kenya Agricultural Research Institute (KARI), Universities, National Environmental Management Authority (NEMA), Kenya Wildlife Service (KWS), Kenya Forest Research Institute (KEFRI), Ministry of Water, Ministry of Environment and Mineral resources, United Nations Environmental Program (UNEP), County governments, National Museums of Kenya, and International Centre for Insect Physiology and Ecology (ICIPE) among many others.

PROGRAMMES FOR SEPTEMBER 2013

PROGRAMMES FOR SEPTEMBER 2013		
Bachelor of Technology in Environmental Resource management Bachelor of Technology in Environmental Science		
Intake:	September	
Duration:	4 years	
Qualifications:	KCSE C+ with at least C+ in Mathematics, Geography, Chemistry and Biology, <i>or</i> TU-K Diploma in Technology in Environmental Resource Management	
Diploma in Technology: Environmental Resource Management		
Intake:	September	
Duration:	3years	
Qualifications:	KCSE C- (Minus) with at least C- in Mathematics, English/ Kiswahili, Biology/Chemistry, Geography/ Agriculture, or TU-K Certificate in a related area or from a recognized institution	
Certificate in Environmental Studies		
Intake:	September	
Duration:	One year	
Qualifications:	KCSE D+ (Plus), those working in various ministries & NGO's on environmental related matters	

THEMATIC AREAS OF RESEARCH:

- Study of the application of satellite remote sensing to support water resources management and disaster mitigation in Kenya
- Development of Decision support for irrigation water management
- Phytophanton: trophic state indices of lake Victoria.
- Determining the microcystin concentration of lake Victoria.

5. Department of Food Science and Technology

The Department of Food Science and Technology offers courses at Bachelors, Diploma and Certificate in Food Science and Technology. Students are trained and given an exposure to all components of food processing, science and technology to enable them understand the link between food, nutrition and health, as well as deliver quality services and make quality products to the ever discerning quality conscious consumers. Our graduates work in a range of food business activities.

PROGRAMMES FOR SEPTEMBER 2013

Bachelor of Philoso	Bachelor of Philosophy in Food Science and Technology		
Intake:	September*		
Duration:	2 years		
Qualifications:	Higher National Diploma in Technology (Food Science and Technology)		
Bachelor of Techno	Bachelor of Technology in Food Science and Technology		
Intake:	September		
Duration:	4 years		
Qualifications:	C + Mean grade (in addition, C+ in Mathematics, Physics and Chemistry, or TU-K Diploma in Technology (Food Science and Technology)		
Diploma in Technol	Diploma in Technology in Food Science and Technology		
Intake:	September		
Duration:	3 years		
Qualifications:	C- Mean grade (in addition, C- in Mathematics, Physics, Chemistry, English or Kiswahili), OR TU-K Certificate in Technology (Food Science and Technology)		
Certificate in Techn	Certificate in Technology Food Science and Technology		
Intake:	September		
Duration:	2 years		
Qualifications:	D+ Mean grade (in addition, D+ in Mathematics, Physics, Chemistry English or Kiswahili).		



THEMATIC AREAS OF RESEARCH:

- Beneficial microbes in foods
- Interaction between food microbes and immune system
- Biodiversity, nutritional assessment and value addition of wild foods in arid lands for improved livelihoods.
- Use of DNA markers in wildlife forensics for conservation.
- Fermentation processes
- Value addition and product diversification
- Quality management system

6. Department of **Technical and Applied Physics**

The Department of Technical and Applied Physics runs programs in Technical and Applied Physics at Diploma and degree levels. It is the only Department offering programs of this kind in Africa. The Department, through its staff, currently provides leadership in Kenya in all matters of space science and technology, and will soon be mounting a Postgraduate program in Space physics. Currently, the programs being offered are at diploma and degree levels.

The degree program is a four-year program placing emphasis on real-world applications and sound understanding of the basics of physics. It is a unique program whose main objective is to produce skilled graduate with hands-on experience, strong analytical skills, and adequate computer based techniques in their areas of specialization. Deliberate emphasis is placed on technical and practical skills by including a high component of practical work, long period of Industry Based Learning (IBL), and regular industry visit to support classroom

teaching. Major areas of research in applied physics are adequately covered such as material science, Instrumentation and energy among others.

The diploma program is a three year program with a unique and well thought out curriculum that aim to produce qualified technicians in the field of Physics and related areas. The curriculum puts emphasizes on hands-on learning through demonstrations, practical exercises, fieldwork and Industry based learning.

Holders of Diploma in Technology (Technical and Applied physics) are eligible for admission into the bachelors program in related Applied Physics areas...

CAREER OPPORTUNITIES:

Opportunities for our graduates are wide and varied. Among the prospective employers include those in the fields of energy, polymer, ceramics and glass. Opportunities are also available in government sector—especially in the ministry of Trade and Industries, Kenya Bureau of standards among others—and e in private sectors such as research bodies, Educational Institutions (such as universities laboratories), as well as colleges and secondary schools where qualified technologist/technicians are greatly sought.

PROGRAMMES FOR SEPTEMBER 2013

Bachelor of Technology (Technical and Applied Physics)		
Intake	September	
Duration	4 years	
Qualification	C+ mean grade (in addition C+ in mathematics, physics and chemistry, English), or TU-K Diploma in Technology (Technical and Applied Physics)	
Diploma in Technology (Technical and Applied Physics)		
Intake	September	
Duration	3 years	
Qualification	C mean grade (in addition C in mathematics, physics and chemistry, English) or TU-K Certificate in Technology in (Technical and Applied Physics)	

THEMATIC AREAS OF RESEARCH:

- Ionospheric scintillations over Equatorial Africa and its impact on position applications and communications using Global Navigation Satellite Systems (GNSS).
- Effects of Geomagnetic Storms on Transformers and Power grid in Nairobi.
- Investigation of F-region ionospheric currents and dynamics of the African Low latitude ionosphere.

2.

FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT





he Faculty of Engineering and the Built Environment prides itself in the tradition of producing technologists, technicians and artisans for the engineering and related work. The Faculty has approximately 3,000 students, making it the largest single destination for training at tertiary level in engineering and technology in Kenya. We offer training at Certificate, Diploma, and Degree levels. Our training reassures industrial partners that FEBE continue its original mandate of training its graduates for the world of work. This will therefore place all FEBE graduates in good stead in the job market.

The Faculty continues to upgrade its capacity to offer practical and up to date training in order to produce graduates with skills for industry. The Departments of Mechanical and Mechatronic Engineering, as well as Electrical and Electronic Engineering were recently selected by the Ministry of Higher Education Science and Technology to receive equipment worth over Kshs 700 million. This equipment will convert the workshops and some training laboratories in the two Departments into centres of excellence within the wider Eastern Africa Region.

Prof. Maina Maringa • Executive Dean



ARCH. PROF. ALFRED OMENYA

Associate Dean/Head
SCHOOL OF ARCHITECTURE
AND THE BUILT ENVIRONMENT
E-mail: hos-sabe@kenpoly.ac.ke

DEPARTMENTS/DEGREES FOR SEPT. 2013:

- 1. Department of Architecture And Environmental Design
- 2. Department of Construction Economics and Management
- Bachelor of Philosophy in Technology (Construction Management)
- Bachelor of Science (Quantity Surveying)
- Bachelor of Technology (Building Construction)
- Bachelor of the Built Environment (Construction Management)
- 3. Department of Land and Infrastructure Management
- 4. Department of Urban and Regional Studies



DR. SAMSON AYUGI

Associate Dean/Head
SCHOOL OF ENGINEERING
SCIENCE AND TECHNOLOGY
E-mail: hos-sest@kenpoly.ac.ke

DEPARTMENTS/DEGREES FOR SEPT. 2013:

- Department of Aeronautical and Aviation Engineering
 B.Eng in: Aeronautical Engineering
- 2. Department of Civil and Environmental Engineering
- B.Phil in Technology in: Civil Engineering
- B.Eng in: Civil and Environmental Engineering
- B.Tech in: Civil Engineering
- 3. Department of Electrical and Electronic Engineering
- B.Phil, B.Eng, B.Tech in: Electrical and Electronic Engineering technology
- 4. Department of Geospatial Science and Engineering
- B.Phil, B.Tech: Geoinformation Technology Surveying Technology
- B.Eng: Geospatial Engineering
- 5. Department of Mechanical and Mechatronic Engineering
- B.Phil, B.Eng, B.Tech: Mechanical Engineering

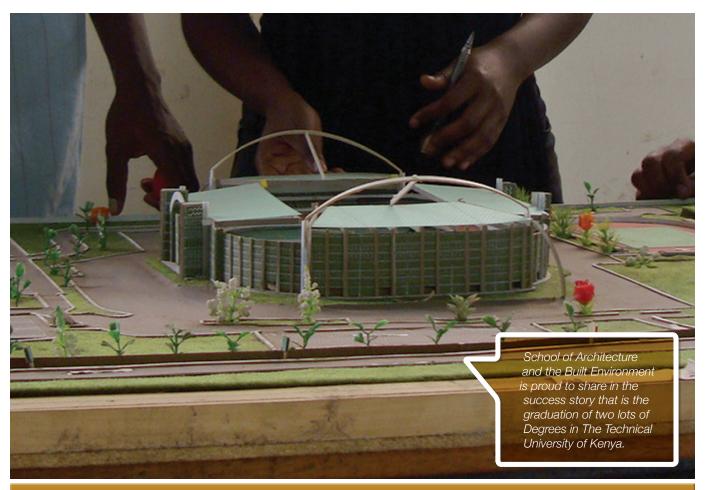


PROF. PATRICK OGAO

Associate Dean/Head
SCHOOL OF INFORMATION AND
COMMUNICATION TECHNOLOGIES
Email: hos-sict@kenpoly.ac.ke

DEPARTMENTS/DEGREES FOR SEPT. 2013:

- Department of Computer Graphics and Multimedia
- 2. Department of Computer Science and Technology
- Bachelor of Technology in: Computer Technology
- 3. Department of Computer Systems and Communication
- Bachelor of Technology in: Communication and Computer Networks
- 3. Department of Information Systems and Technology
- Bachelor of Technology in: Information Technology
- 4. Department of Scientific Computing & Modelling



A. SCHOOL OF ARCHITECTURE AND THE BUILT ENVIRONMENT

In the built environment, **ERGONOMICS** and **AESTHETICS** are key values that must be applied in equal measure. As we transfer these skills, we pay particular attention to the trainee's artistic skills as well as their imaginative capabilities to ensure functionality and success of the end product.

of Architecture and the Built Environment was established to offer cutting edge professional and academic training in line with the College's motto of 'Education and Training for the Real World'. The school's mission is: "to be a centre of excellence in learning, creativity and enterprise, promoting economics, social and cultural well being in the built environment". Dealing mainly with concrete issues, SABE is the space where imagination of future urban and rural places is being constructed and concretized. It is the space where future professionals working on infrastructure, development and the environment are being prepared.

The school is home to some 2 000 students in six departments, which offer professional degrees, degrees of technology, diplomas and certificates, making it one of the biggest built environment schools in Kenya. Led by top intellectuals and professionals, the school runs 'professional plus programmes' that focus on building individuals with intellectual (knowledge); professional (discretionary) and technical (application) competencies. Further, students go through annual industry based learning; making them hands on professionals.

QUICK FACTS ABOUT THE SCHOOL

- Our training approach handles the creative process bearing in mind that Architecture must be geared towards identification and solution of problems.
- We produce graduates with technical, contextual, theoretical and environmental skills, and that is why at least 90% of our graduates find almost instant placement in the job market.
- Produce entrepreneurial graduates' joining the world of work as clerks of work, contractors in the field of Built environment.
- Land administration programmes currently offered in the school will address the challenges of land administration in Kenya.



1. Department of **Architecture And Environmental Design**

The programmes at the department of Architecture and Environmental Design are designed to train independent, competent and reflective graduates with a high level of critical awareness of their academic discipline. The skill of the architect is design and therefore the design studio remains at the heart of the programme, with theoretical, technical, contextual and environmental studies. The strength of the education and training lies in technical empowerment and innovative design. Our graduates receive training in art so that their designs are pleasing to all the senses.

Degree Programme: This course is designed to train extremely creative architects who meet the International Union of Architect's criteria of training for architects. We prepare them for the dynamic practising world through our programmes and studio exercises which enlarge the students view of the world. Members of the department are practising architects who help students engage with the practising world and also prepare them for their future life as architects.

 Bachelor of Built Environment in Architecture/Bachelor of Architecture degree

This is a truncated degree programme comprising two degrees in one and takes six calendar years. The Bachelor of Built Environment in Architecture is available after four years of study and the Bachelor of Architecture degree is available after a further two years of study. One must do the Bachelor of Architecture degree in order to qualify to register as an architect.

Bachelor of Technology in Architecture

Diploma Programme: Architectural technology technicians assist architects to run their practices. They also join work as clerk of works, contractors,

entrepreneurs and other areas of the built environment. Our graduates have an employment rate of at least 90%.

Diploma in Technology in Architecture

The diploma programme is designed to train competent architectural technology technicians. These are the hands on people who implement the architects dreams. They are strong in design and technology

Certificate Programme: This programme is designed to open the way for those who aspire to join the built environment from the side where the architect stands.

Certificate in Architectural Draughtsmanship

The certificate programme is designed for students who require a foundation to the Diploma in Technology in Architecture.

PROGRAMMES FOR SEPTEMBER 2013

Minimum Qualifications:	Diploma in Technology in: Architecture KCSE Mean grade 'C-' (minus) with at least C- in Mathematics, physics/Physical Science and English/ Geography
Intake:	September
Duration:	Dip.Tech: 8 semesters

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2. Department of Construction Economics and Management

The construction industry is a dynamic environment involving unique projects that demand innovation and ingenuity to solve problems that inevitably arise. Planning and controlling the allocation of resources and the detailed matching of design and production to the needs of the market for built space are at the core of the construction industry. Career opportunities for qualified graduates from the department are excellent, exciting, fast moving and rewarding. In addition, there are openings for graduates to work in neighbouring countries and foreign based firms as consultants.

The department offers courses in two major fields of Built Environment; Quantity Surveying and Construction Management. Quantity surveyors prepare the legal documents of construction and control the costs for their clients in projects. Construction Management professionals oversee the construction schedule, allocation of resources and ensure the project is completed within authorized budget.

Currently, the department offers the following programmes at Diploma and Degree levels:

Quantity Surveying

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Construction Management

PROGRAMME	S FOR SEPTEMBER 2013
Minimum Qualifications:	Bachelor of Philosophy in Technology (Construction Management) Higher Diploma in Construction KNEC or Equivalent with at least 2 years relevant work experience
	Bachelor of Science (Quantity Surveying) Diploma in Building, Civil, Quantity Surveying and Architecture KNEC or Equivalent with at least 2 years relevant work experience
	Bachelor of Technology (Building Construction) Diploma in Building and Architecture KNEC or Equivalent with at least 2 years relevant work experience
	Bachelor of the Built Environment (Construction Management) Diploma in Construction Management, Building, Civil, Quantity Surveying, and Architecture KNEC/or Dip Tech KPUC or Equivalent with at least 2 years relevant work experience.
	Diploma in Technology in: Building Construction • Construction Management • Quantity Surveying • KCSE Mean grade 'C-' (minus) in with at least C- in English/ Geography, Maths, Physical Science or Physics, CTI
Intake:	September
Duration:	B.Phil: 4 semesters B.Tech, BSc, BBE: 6 semesters Dip.Tech: 8 semesters

3. Department of Land and Infrastructure Management

The department derives its name from two broad areas of study which mutually synergise to support mankind. While land is the nerve centre of all societies, infrastructure serves as the arteries that spread physical and social development over space and time. It is based on this recognition, that the programmes dociled in the department are developed. The programmes are designed to meet the country specific needs while at the same time addressing global challenges. The department offers programmes in Land Administration and Infrastructure Management at certificate, diploma and degree levels.

The programme on Land Administration deals with processes, institutions, legal framework, social cultural issues and political dynamics which influence access and right to land. It prepares professionals fro careers in national and county governments, research institutions, private practice, universities and nongovernmental organizations among others. On the other hand, the programme on infrastructure management deals with resolution of infrastructural problems that characterize the post implementation period. In addition the programme explores opportunities for integration of sectoral infrastructure to create a platform for holistic infrastructure management.

PROGRAMMES FOR SEPTEMBER 2013

Minimum Qualifications:	Diploma in Technology in: Valuation and Property Management KCSE Mean grade 'C-' (minus) with at least C- in Mathematics, physics/Physical Science and English/ Geography
Intake:	
Duration:	Dip.Tech: 8 semesters

4. Department of Urban and Regional Studies

The Department of Urban and Regional Studies was established in 2008. Since then, it has played a leading role in the education of urban and regional planners and urban designers. The Department is home to both professions, offering a first professional degree in urban and regional planning and urban design and development. Composed of internationally experienced scholars and practitioners, the departments faculty explores the built environment from diverse disciplinary backgrounds and points of view. The departments pedagogically innovative combination of interdisciplinary studios, lecture courses, seminars, and independent study, coupled with a relatively small student size drawn from around the East African region, create an intimate, engaged educational atmosphere in which students thrive and learn.

Accredited by the professional bodies, Urban Design and Development degree program and Urban and Regional Planning degree and Diploma programs focuses on planning for the development, preservation, and enhancement of the built environment. Students learn how to understand, analyse, and influence the variety of forces-social, economic, cultural, legal, political, ecological, and aesthetic, among others-shaping the built environment. Students take full advantage of the curricular and extracurricular offerings of the Design Schools other departments of landscape architecture and architecture. The Department also draws upon the significant resources of The Technical University of Kenya as a whole. Students often cross-register in courses offered by the Schools of Arts and Sciences, the Business and Law School, and the School of Health sciences.

COURSES OFFERED

http://www.tukenya.ac.ke | THE TECHNICAL UNIVERSITY OF KENYA • CERTIFICATE | DIPLOMA | UNDERGRADUATE PROSPECTUS 2013

- Bachelor of the Built Environment (Urban Design and Development)
- Bachelor of the Built Environment (Urban and Regional Planning)
- Diploma in Technology (Urban and Regional Planning)

PROGRAMMES FOR SEPTEMBER 2013

Minimum Qualifications:	Diploma in Technology in: Urban and Regional Planning KCSE Mean grade 'C-' (minus) with at least C- in Mathematics, physics/Physical Science and English/ Geography
Intake:	September
Duration:	Dip.Tech: 8 semesters



B. SCHOOL OF ENGINEERING SCIENCE AND TECHNOLOGY

Innovation is one way to make the world a better place and even the smallest of innovations is significant enough to improve the life in many ways. Our business is to train the innovators and we invite you to the exciting World of the real Science, Engineering and Technology.

and Technology has evolved with mankind's zeal to acquire and apply knowledge to improve people's lives. At the School of Engineering Science and Technology, we sharpen your mind to innovatively improve existing processes and systems to solve problems. The school derives its strength in the diversity of programmes, faculty members and students. The school pools expertise in one roof on which students learn multi-disciplinary approach to advanced problem solving skills. These and other factors have made the school a centre of innovation. Innovation is one way to make the world a better place and even the smallest of innovations is significant enough to improve the life in many ways. Our business is to train the innovators and we invite you to the exciting World of the real Science, Engineering and Technology.

The School has consistently produced innovative and adaptive Engineering Technology graduates at all levels with appropriate technological skills usable to turn concepts into useful products in real time. This, we achieve by providing quality training compatible with the emerging technological trends in Engineering Science and Technology to spur sustainable industrialization of the Nation – Now and Tomorrow! The School boasts some of the most advanced and state-of-the-art equipment for teaching engineering and technology in the region, thereby "Translating concepts into reality".

QUICK FACTS ABOUT THE SCHOOL

- Most practising Civil Engineering Contractors are graduates of The Technical University of Kenya. The Department of Civil and Environmental Engineering has for a long time served the East and Southern Africa region with students from as far as Botswana, Malawi, just to mention a few. This is because we integrate knowledge and expertise from other engineering sciences.
- The Department of Civil and Environmental Engineering offers
 courses well structured to meet the ever-changing demands of the
 civil engineering and construction industry. We also offer specialized
 courses at Certificate and Diploma levels on request from Government
 Departments, Local Authorities and the industry. Some of the popular
 certificate courses include Certificate in Fire Engineering, Civil
 Engineering and AutoCAD.
- We keep abreast with volatile technological advancement in the industry. This, with modern equipment having been installed and commissioned in all our workshops.



1. Department of Aeronautical and Aviation Engineering

The department imparts knowledge, skills and attitudes necessary for the design, development, manufacture, maintenance, servicing and safety of aeronautical engineering space model. We build up from the engineering sciences, materials sciences, mathematical concepts, general engineering principles and arts, the fundamental areas of study emphasizes on; engineering design, aeronautical construction, aeronautical technology management and airworthiness.

COURSES OFFERED

- Bachelor of Engineering in Aeronautical and Aviation Engineering –
 Options: Airframes and Engines Avionics
- Diploma in Technology in Aeronautical and Aviation Engineering –
 Options: Airframes and Engines Avionics
- Certificate in Technology Options: Airframes and Engines Avionics
 Helicopters Maintenance

PROGRAMMES FOR SEPTEMBER 2013

Minimum Qualifications:	Bachelor of Engineering in: Aeronautical Engineering KCSE mean grade of C+ including C+ in the cluster subjects
	Certificate in Aircraft Maintenance: Airframe and Engines • Avionics • KCSE D+ with at least D+ (plus) in cluster
Intake:	September
Duration:	B.Eng: 13 semesters Certificate: 2 – 3 semesters* Short courses: Varied durations*
* Please seek clarification on exact duration from the Department	

2. Department of Civil and Environmental Engineering

The department offers courses well structured to meet the ever-changing demands of the civil engineering and construction industry. We also offer specialized courses at Certificate and Diploma levels on request from Government Departments, Local Authorities and the industry. Some of the popular certificate courses include Certificate in Fire Engineering, Civil Engineering and AutoCAD.

All our courses impart practical skills to enable our graduates to enter the job market as employees or self employed people. It is a credit to this department that most of the practicing Civil Engineering Contractors are our graduates. The Department has for a long time served the East and Southern Africa region with students from as far as Botswana, Malawi, just to mention a few. Besides, a fully equipped computer laboratory has been operational in the Department, thanks to the Belgian Government. Lecturers and Students have greatly benefited from this project.

COURSES OFFERED

- Bachelor of Technology in Civil Engineering
- Bachelor of Engineering in Civil Engineering
- Diploma in Civil Engineering
- · Diploma in Technology in Civil Engineering
- Diploma in Water Engineering
- Certificate in AutoCAD
- Certificate in Civil Engineering
- Certificate in Fire Engineering

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PROGRAMMES FOR SEPTEMBER 2013

Minimum Qualifications:

Bachelor of Philosophy in Technology in: Civil Engineering

• Higher Diploma in: Civil Engineering

Bachelor of Engineering in: Civil and Environmental Enaineerina

• KCSE mean grade of C+ including C+ in the cluster subjects

Bachelor of Technology in: Civil Engineering

 KPUC Diploma in Technology in: Civil, Highway Engineering Water Engineering or Building Construction

Diploma in Technology in: Civil Engineering

• KCSE Mean grade C (plain) with C in Mathematics, Physics, and English, or relevant Certificate in Engineering

Certificate - Fire Engineering

 KCSE Mean arade C- (minus) with D+ (plus) in Mathematics and English

Certificate - Environmental Engineering

• KCSE Mean grade C- (minus) with D+ (plus) in Mathematics and English

Certificate - Civil Engineering

AUTOCAD

• Professional in the Building and Civil Engineering Industry

Duration:

B.Phil: 4 semesters B.Eng: 13 semesters B.Tech: 6 semesters Dip.Tech: 8 semesters

Certificate: 2 - 3 semesters* Short courses: Varied durations*

* Please seek clarification on exact duration from the Department



3. Department of Electrical and Electronic Engineering

and leads in identifying needs in the industry. The department addresses industry needs in the following programmes.

COURSES OFFERED

- Bachelor of Philosophy in Technology (Electronics and Computer) Engineering • Instrumentation and Control • Power Systems • Telecommunications)
- Bachelor of Engineering (Electronics and Computer Engineering Instrumentation and Control • Power Systems • Telecommunications)
- Bachelor of Technology (Electronics and Computer Engineering Instrumentation and Control • Power Systems • Telecommunications)
- Technician Diploma in Electrical and Electronic Engineering
- Diploma in Telecommunication Systems
- Technician Certificate in Electrical and Electronic Engineering
- Certificate in Basic Servicing and Maintenance of Electrical and
- Certificate in Computer Servicing and Maintenance (CSM)
- Certificate in Electrical Installation Technician
- Certificate in Electronics Technician

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The department of Electrical and Electronic boasts of diversity in programmes

- Diploma in Technology (Electronics and Computer Engineering Instrumentation and Control • Power Systems • Telecommunications)
- Electrical Installation Electrician
- Electronics Equipment (BSM)

- Craft Certificate in Applied Electronics

PROGRAMMES FOR SEPTEMBER 2013

Minimum Qualifications:

Bachelor of Philosophy in Technology in: Electrical and Electronic Engineering Technology

Higher Diploma in: Electrical and Electronic Engineering

Bachelor of Engineering in: Electrical and Electronic Engineering

• KCSE mean grade of C+ including C+ in the cluster subjects

Bachelor of Technology in: Electrical and Electronic Engineering technology

• KPUC Diploma in Technology in: Electrical and Electronic Engineering technology

Diploma in Technology in: Electrical and Electronic Engineering

• KCSE Mean grade C (plain) with C in Mathematics, Physics, and English, or relevant Certificate in Engineering

Electrical Installation Technician III

• Pass in Certificate in Electrical Installation Technician II or Electrical Installation Craft Final (KNEC) OR Equivalent

Electrical Installation Electrician III

KCSE mean grade D (plain)

Electrical Installation Electrician II

Pass in Electrical Installation Electrician III or Grade Test III

Electrical Installation Electrician I

Pass in Electrical Installation Electrician II or Grade Test II

Certificate in Refrigeration & Air Conditioning

KCSE mean grade D+ (plus)

Certificate in Electronics Technician Part III (CET III)

Pass in Certificate in Electronics Technician II or Equivalent

Certificate in Electronics Technician II

Pass in Certificate in Electronics Technician I

Certificate in Electronics Technician I

KCSE Mean grade C- (minus)

Certificate in Electrical Installation Technician II

Pass in Certificate in Electrical Installation Technician I

Certificate in Electrical Installation Technician I

• KCSE Mean grade C- (minus)

Intake:	September
Duration:	B.Phil: 4 semesters B.Eng: 13 semesters
	B.Tech: 6 semesters
	Dip.Tech: 8 semesters
	Certificate: 2 – 3 semesters*
	Short courses: Varied durations*

^{*} Please seek clarification on exact duration from the Department



4. Department of Geospatial Science and Engineering

Geospatial Engineering is the professional discipline concerned with the measurement, analysis, and graphic representation of dimensional relationships: as well as with the design, construction, maintenance, and use of geodatabases. It has its roots in surveying and mapping and encompasses the specialisms of geodesy, surveying, Topometry, hydrography, Geoinformatics, and navigation.

The Department of Geospatial Science and Engineering offers students a world class programmes enabling them to use Geospatial Technology to service an exponentially growing demand for geospatial information about natural and the built environment. Geospatial Engineering is today one of the fastest growing fields of information technology being used in an eve expanding range of applications, including environmental mapping, land and resources management, scientific, strategic planning and development.

Today, the department is a leader in Navigation and Earth Observation research. including high end technologies such as Global Positioning System (GPS), Remote Sensing, Geodesy, Airborne Imagery, LIDAR Mapping and GIS.

COURSES OFFERED

- Bachelor of Philosophy (Geo-information Technology Survey Technology)
- Bachelor of Engineering (Geospatial Engineering)
- Bachelor of Technology (Geo-information Technology Survey Technology)
- Diploma in Technology (Survey Technology Geo-information
- Certificate in Land Surveying and Cartography
- · Geographical Information Systems (GIS)

PROGRAMMES FOR SEPTEMBER 2013

Minimum Qualifications:

Bachelor of Philosophy in Technology in: Geoinformation Technology • Surveying Technology

 Higher Diploma in: Surveying Technology • Surveying, Cartography, Photogrammetry or Remote Sensing

Bachelor of Engineering in: Geospatial Engineering

• KCSE mean grade of C+ including C+ in the cluster subjects

Bachelor of Technology in: Geoinformation Technology • Surveying Technology

 KPUC Diploma in Technology in: Geoinformation Technology

Diploma in Technology in: Geoiformation • Surveying

• KCSE Mean grade C (plain) with C in Mathematics, Physics, and English, or relevant Certificate in Engineering

Certificate in Geographic Information Systems

KCSE mean grade D+ (plus)

Intake:

Septembe

Duration:

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B.Phil: 4 semesters
B.Eng: 13 semesters
B.Tech: 6 semesters
Dip.Tech: 8 semesters
Certificate: 2 – 3 semesters*

* Please seek clarification on exact duration from the Department

CAREER PROSPECTS:

Currently students who graduate with Degree in Geospatial Sciences find employment in such sectors as; Land and Mapping organizations, Financial Institutions, Engineering Construction firms, Parastatal Organizations, the Military and Police and Security Intelligence, Agriculture and Forest Mapping, Water Resources Mapping and Mineral exploration. Also included in these categories are; mobile web applications, vehicular navigation, telecommunication, mobile mapping and Location Based Services.

At the more scientific Level, Geospatial Engineering Professionals deal with the following areas: determination of size and shape of the earth; plate tectonics movements, sea bottom deposits, hydrographic dredging, coastal mapping, urbanization, population growth, environmental degradation, and disaster mitigation and management. Basically every sector of the economy needs the input of geospatial engineering directly or indirectly; and without the foot prints of a Geospatial Engineer, there is no sustainable development.



5. Department of Mechanical and Mechatronic Engineering

The Department offers courses that integrate mechanical engineering, electrical engineering, electronic engineering and software engineering. The courses lead to careers in design, manufacture, machinery control, maintenance and automation in present day industry.

Mechanical engineering involves design, manufacturing, operating and maintenance of various systems. It is an engineering discipline that developed from the application of principles of physics, materials science, chemistry and mathematics. The core concepts of mechanical engineering are mechanics, materials and energy. Other knowledge in the field of mechanical engineering and these core principles are used to design and produce industrial machinery, equipment, manufacturing plants, heating and cooling systems, motor vehicles, aircraft, watercraft, medical devices, oil/gas pipelines and other structures.



COURSES OFFERED

- Bachelor of Philosophy in Mechanical Engineering Technology
- Bachelor of Engineering in Mechanical Engineering options:
 Manufacturing and Industrial Engineering Industrial Plant and
 Energy Engineering Automotive and Autotronic Engineering •
 Metallurgical and Materials Engineering
- Bachelor of Technology in Mechanical Engineering Technology –
 options: Manufacturing and Industrial Engineering Industrial Plant
 and Energy Engineering Automotive and Autotronic Engineering •
 Metallurgical and Materials Engineering
- Diploma in Technology in Mechanical Engineering options:
 Manufacturing Engineering Industrial Plant Engineering •
 Automotive and Autotronic Engineering Air-Conditioning and Energy Engineering Structural Fabrication and Materials Engineering •
 Metallurgical and Materials Engineering
- Diploma in Technology in Mechatronic Engineering
- Certificate in: Motor Vehicle Mechanic I Motor Vehicle Mechanic II
 Auto-Electrician Stage I Auto-Electrician Stage II Certificate in Refrigeration & Air Conditioning Mechanical Engineering Technician Part I (Plant) Mechanical Engineering Technician Part II (Plant) Certificate in Fabrication & Welding

PROGRAMMES FOR SEPTEMBER 2013

Minimum Qualifications:

Bachelor of Philosophy in Technology in: *Mechanical Engineering*

Higher Diploma in: Mechanical Engineering

Bachelor of Engineering in: Mechanical Engineering

• KCSE mean grade of C+ including C+ in the cluster subjects

Bachelor of Technology in: Mechanical Engineering

KPUC Diploma in Technology in: Mechanical Engineering

Motor Vehicle Mechanic I

KCSE LEVEL

Mechanical Engineering Technician Part II (Production Option)

Mechanical Engineering Technician Part I

Mechanical Engineering Technician II (Plant)

Mechanical Engineering Technician I (Plant)

Certificate in Fabrication & Welding

KCSE mean grade D+ (plus)

AUTO-ELECTRICIAN STAGE I

 KCSE Mean grade C- (minus) with D+ (plus) in Mathematics and English

AUTOCAL

 Professional in the Building and Civil, Mechanical Engineering Industry

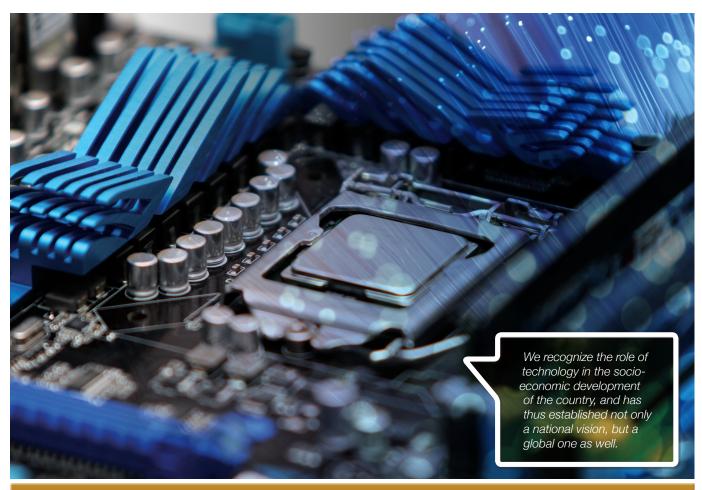
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Duration:

B.Phil: 4 semesters B.Eng: 13 semesters B.Tech: 6 semesters

Certificate: 2 – 3 semesters*
Short courses: Varied durations*

* Please seek clarification on exact duration from the Department



C. SCHOOL OF INFORMATION AND COMMUNICATION TECHNOLOGIES

Computing and Information Technology has transformed society into a virtual world. We have used this to offer education and training for the real world...



School of Information and Communication Technologies is one of Kenya's premier institutions for Computer Science Education and Research. Over the years, the school has consistently produced high calibre technicians and technologists to all sectors of Kenya's economy. The school prides itself in programs that prepare students to be industry leaders who can apply information and communication technology across a wide variety of fields.

The School recognizes the role that technology plays in the socio-economic development of the country, and has thus established not only a national vision, but a global one as well. This is being realized through the linkages with current as well as former students, and the larger technology market. In a rapidly changing sector such as ICT, maintaining a good relationship with our stake holders has ensured we are able to meet diverse needs at corporate and individual levels. Our graduates have been absorbed in sectors such as manufacturing and production, training, research and service industries.

The feedback from the industry reflects a need to maintain these linkages and continuously respond to the needs of the market in a manner that ensures priority

QUICK FACTS ABOUT THE SCHOOL

- The feedback from the industry reflects a need to maintain these linkages and continuously respond to the needs of the market in a manner that ensures priority areas such as IT are not overlooked.
- Produce graduates with right skills and attitudes for the market.
- We use latest software and technologies to train our students to meet the market demands.
- Student-computer ratio at the School of Information and Communication Technologies laboratories is 1:1.
- Hands-on training is observed at all times for our students. The result
 of this is competent Information Technology professionals.



areas such as information and communication technologies are not overlooked. As a result, courses are deliberately designed to provide an opportunity for trainees to develop a career in Computer Hardware and Software technologies. The Industry has deliberately been involved in the development of the curriculum relevant and acceptable to Industry.

The School is responsible for teaching, training, carrying out research in software and hardware technologies, data communications and computer graphics. The school is equally responsible for the development of curricula for all the computer related courses in the university college with emphasis on practical hands on based training.

1. Department of Computer Graphics and Multimedia

The department will be involved in the teaching and training of undergraduate students in the areas of design, development and application of software to use graphics, sound, animation, interactivity elements to create dynamic visual presentations.

CAREER PROSPECTS:

Graduates from this course can specialize in Computer Animation or Computer Game Design. Specialists in Computer Animation end up being employed in cartoon animation industry, media industry, product promotion and marketing, film industry, game animation etc. Specialists in Computer Game Design end up as game designers, sound, user interface, game tools programmer, scriptures etc.

2. Department of Computer Science and Technology

The department will be involved in the teaching and training of undergraduate students in the areas of design, research and development of digital electronic systems, computer architecture, and control programs in the electronic data processing applications.

COURSES OFFERED

- Bachelor of Technology in Computer Technology
- Diploma Technology in Computer Technology
- Diploma Technology in Computer Engineering
- Advanced Certificate in Computer Technology
- Advanced Certificate in Computer Hardware & Network Support
- Advanced Certificate in Software Development
- Certificate in Computer Engineering
- Certificate in Computer Technology

PROGRAMMES FOR SEPTEMBER 2013

Minimum Qualifications:	Bachelor of Technology in: Computer Technology • Diploma (TEP) or Equivalent • KSCE C+ (plus) with at least C+ in Eng, Maths and Physics
Intake:	
Duration:	9 semesters for KCSE, 6 semesters for Diploma

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CAREER PROSPECTS:

Our computer technology graduates are expected to find opportunities in fields of software development, engineering and maintenance, computer hardware engineering, repair and maintenance, Network engineering, design and maintenance, technical support, Data clerks, computer librarians, Training in technical institute which are available in software industries, financial institutions for instance banks, SACCO, microfinance institutions, Insurance sectors, telecommunication firms, education sectors, government ministries and parastatals, health and hospital sectors, manufacturing industries systems, airways systems, entertainments industries systems transport industry systems, NGOs, media broadcasting houses, Publications sectors, Computer assembly industries, business retail systems.

3. Department of Computer Systems and Communication

The department will be involved in the teaching and training of undergraduate students in the area of computer architecture, the computer networks and telecommunication systems for data and information transmission.

COURSES OFFERED

- Diploma in Communication & Computer Networks
- Certificate in System Technical Support

PROGRAMMES FOR SEPTEMBER 2013

Minimum Qualifications:	Bachelor of Technology in: Communication and Computer Networks. • KSCE C+(plus) with at least C+ in Eng, Maths and Physics Bachelor of Technology in: Communication and Computer Networks. • Diploma (TEP) or Equivalent Certificate in: Computer Networking • KCSE D+(Plus) with at least a D- in Maths/Physics
Intake:	September
Duration:	B.Tech : 9 semesters for KCSE, 6 semesters for Diploma Certificate : 2 semesters

CAREER PROSPECTS:

Students who have graduated in computer systems and communication are expected to find opportunities in system administration, web designing, network designing and telecommunication industry.

3. Department of Information Systems and Technology

The department will be involved in the teaching and training of undergraduate students in the areas of applications and management systems that would be used in data processing, data capture and data storage and transmission of instrumentation for the business applications.

The business applications entail systems that are aimed at enhancing the operation and management of the organization.

The goal of the program is to prepare students with broad, integrated IT knowledge including communications, computer networking, computer-based systems, database management, software development and website development. Students learn how to evaluate current and emerging technologies; identify user needs; design user-friendly interfaces; apply, configure and manage technologies; and assess the impact of technologies on individuals, organizations and society.

COURSES OFFERED

- Bachelor of Technology in Information Technology
- Diploma in Information Technology
- Diploma in Information System
- Advanced Certificate in Information Technology
- Certificate in Information Technology

PROGRAMMES FOR SEPTEMBER 2013

Minimum Qualifications:	Bachelor of Technology in: Information Technology KSCE C+ (plus) with at least C+ in Eng, Maths and Physics Bachelor of Technology in: Information Technology Diploma (TEP) or Equivalent Certificate in: Information Technology KCSE D+(Plus) with at least a D- in Maths/Physics
Intake:	September
Duration:	B.Tech: 9 semesters for KCSE, 6 semesters for Diploma Certificate: 2 semesters

CAREER PROSPECTS:

Graduates of Information Technology program are qualified IT professionals who are prepared for careers in a wide-range of IT-related areas, like: Computer networking, Network and systems administration, Website development and management, IS manager, Database administration, Software development, IS auditors, Project management and System analyst/Programmer

4. Department of **Scientific Computing & Modelling**

The department will be involved in the teaching and training of undergraduate students in the areas of design and application of embedded systems and numerical control software for natural, scientific and industrial systems.

CAREER PROSPECTS:

Graduates of Scientific Computing and Modelling program are qualified IT professionals who are prepared for careers in Development and testing of programs to be used in: Engineering Testing, Engineering Material Testing, Robotics, Manufacturing and Simulation of Engineering Systems.

THE **TECHNICAL** MILESTONES

Production of Biodiesel at the University

The Technical University of Kenya is in the frontline of green energy research by finding alternative fuel. The university is now producing biodiesel from waste vegetable cooking oil, a project spearheaded by the Department of Biochemistry and Biotechnology and the Department of Mechanical and Mechatronics Engineering. This is a multidisciplinary research of transforming applied research into innovations for societal development.

A test of the biodiesel produced has been carried out in a stationary engine at the University laboratories. A comparison of torque, brake power, fuel consumption rate of produced biodiesel to petro-diesel and blends of biodiesel with petro-diesel in a conventional diesel engine has also been conducted at the National Youth Service (NYS), Ruaraka.

The university intends to commercialize the product in future and venture into production of bio-paraffin and soap from the process by-products. The motivation of the production of biodiesel is based on the fact that currently in Kenya, preliminary studies have shown that the waste cooking oil is either topped up for re-use or discarded to the drainage. The university therefore intends to add value to it.

Installation of State of the Art Engineering Equipment

The university has acquired and installed state of the art equipment in the Engineering workshops and laboratories under the

TVET programme, and will be among the most modern and best in the country's universities.

TU-K has been identified to provide leadership in technical training in the country hence has upgraded most of its learning facilities through refurbishment and installation of new and up-to-date laboratory equipment and workshop machines. The institution has the best equipment for mechanical and electrical engineering in the region.

This has reinforced the University's tradition of producing highly skilled engineers who take a leading role in national development. It has also enhanced the capacity for internal industry based learning programme to enable students gain working experience.

The Solid State Lighting (SSL) Technology Center

The University is the pioneer institution to establish Solid State Lighting (SSL) Technology Center with the support of the Government of China.

SSL technology is currently used by students in Mechanical and Mechatronics as well as Electrical and Electronic engineering for the training on joint research, technology demonstration, Lighting systems and component, **general illumination purposes** and exchange of scientific ideas. This will form part of appraising the institution's academic standards and training mechanism that will ensure students receive hands on exposure to modern equipment.

Library System

The university has a modern library installed with the latest software called **KOHA**, which is used for electronic and on-line access
of its services by the users. This enables the library to provide its services online. The system also has a portal "Ask A Librarian" which enables the users to communicate online with the librarian.

The Library has a website **library.tukenya.ac.ke** through which students access their library accounts, Online Public Access Catalogue (OPAC), electronic resources which range from electronic books, databases to electronic journals.

The Library has a hotspot "5" where the users gain access to internet using their laptops that are WIFI enabled. The key to the hotspot is available on the Library notice board. The Library aims at implementing open access to the e-resources where the TU-K students will be able to access them outside the institution using their personal user name and password.

The Library has also introduced the use of social media to disseminate information to its clients. The platforms used are; Facebook-library.polytechnic.ac.ke

FACULTY OF LIBERAL AND PROFESSIONAL STUDIES





aculty of the Liberal and Professional Studies comprises four Schools with a practical approach to training. The Faculty has managed to develop cutting edge study areas that allow for student fulfilment in their career aspirations in a competitive market that demands the ultimate in human resource.

The Faculty recognizes the need for holistic training and includes a humanistic aspect of professional training through multi disciplinary approaches that has endeared our graduates to the industry thus realizing our motto of "Education and training for the real world".

Our graduates continue to be trained to be hands-on in whatever they do thus standing out among their professional peers in the country, region and international markets.

Prof. Emily A. Akuno, Executive Dean



PROF. ATIENO NDEDE-AMADI

E-mail: hos-sbms@kenpoly.ac.ke

Associate Dean/Head SCHOOL OF BUSINESS AND MANAGEMENT STUDIES



PROF. ODOCH PIDO

Associate Dean/Head SCHOOL OF CREATIVE ARTS AND TECHNOLOGIES E-mail: hos-scat@kenpoly.ac.ke



PROF. RICHARD O. B. MAKOPONDO

Associate Dean/Head SCHOOL OF HOSPITALITY AND TOURISM MANAGEMENT

Email: hos-shtm@kenpoly.ac.ke



PROF. HENRY KEMONI

Associate Dean/Head SCHOOL OF SOCIAL AND TECHNOLOGY STUDIES

Email: hos-ssts@kenpoly.ac.ke

DEPARTMENTS/DEGREES FOR SEPT. 2013:

- 1. Department of Accounting and Finance
- BCom: Accounting Finance
- BSc in Accountancy
- 2. Department of Business Administration
- BCom: Business Management Human Resource Marketing • Logistics and Supply Chain • Entrepreneurship • Insurance • Procurement and Supplies
- B.Tech in Office Administration
- 3. Department of Economics and Development Studies
- Bachelor of Economics
- 4. Department of Law and Legal Studies
- 5. Department of Management Science and Technology B.Technology BIT

DEPARTMENTS/DEGREES FOR SEPT. 2013:

- 1. Department of Design and Creative Media B.Tech in Design
- 2. Department of Fashion and Textiles
- 3. Department of Journalism and Mass Communication
- . B.Tech in Journalism and Mass
- 4. Department of Music and Performing Arts Bachelor of Music
- 5. Department of Printing and Media Technology
- B.Phil in Technology (printing)

DEPARTMENTS/DEGREES FOR SEPT. 2013: 1. Department of Event and Convention

- 2. Department of Catering and Institutional
- Bachelor of Technology in: Institutional Catering and Accommodation Management
- 3. Department of Hotel and Restaurant
- 4. Department of Tourism and Travel
- Bachelor of Technology in: Tourism and Travel Management

DEPARTMENTS/DEGREES FOR SEPT. 2013:

- 1. Department of Languages and Communication
- 2. Department of Library and Information Science . Bachelor of Technology in Information Studies
- 3. Department of Psychology and Counselling · Bachelor of Science in Counseling Psychology
- 4. Department of Science and Technology Studies
- 5. Department of Social and Intercultural Studies
- Bachelor of Arts in International Relations and Diplomacy



A. SCHOOL OF BUSINESS AND MANAGEMENT STUDIES

"Professionalism at all levels of management of human, capital and material resources are key to the success of the national economy. This is the virtue we train our students to uphold at all times".

School of Business and Management Studies at The Technical University of Kenya (TU-K) is committed to training students with unmatched ability to manage financial and other resources for the nation's economic development and realization of the Vision 2030. We've got a student population of 2,000 in both the full and part-time programmes. Currently, the school has 43 full-time and 23 part-time lecturers. These lecturers also support other Schools in the University.

The School offers Business and Management programmes. This is available for both full- time and part-time students. The part-time classes run from 6.00 p.m to 8.00 p.m on weekdays and from 8.00 a.m to 4.00 p.m on Saturdays. These courses are run on semester basis. The university offers courses at different levels such us Degree, Diploma, Advanced Certificate, Certificate and Single Subject levels. We offer upgrading of subjects, for example, English and Mathematics to enable the students qualify for admission in Business Management. Our courses are examined by University. Information and communication technology (ICT) is integrated into all our course offerings. The School also offers Management and Computer related seminars during the Semester breaks.

QUICK FACTS ABOUT THE SCHOOL

- School of Business and Management Studies at TU-K is committed to training students with unmatched ability to manage financial and other resources for the nation's economic development and towards realization of Vision 2030
- We offer creative and innovative education and training for business and tailormade professional programmes
- Robust industry-based learning programme and easy job placement in industry

Department of Accounting and Finance

The Department of Accounting and Finance educates and equips students with accounting and finance skills. The programmes are tailor-made to provide both academic and professional qualifications.

COURSES OFFERED

- Bachelor of Accountancy
- Diploma in Accountancy
- Certified Public Accountant (CPA)
- · ATC Intermediate & Final

PROGRAMMES FOR SEPTEMBER 2013

Minimum | Bachelor of Commerce - Options: Accounting • Finance

- **Qualifications:** Diploma in a Business Course or Equivalent or
 - CPA/CPS Part II or Equivalent or
 - KCSE mean grade of C+ with C in Mathematics and English/ Kiswahili, Any group III, Any group II/2nd group III/any group IV/any group V OR equivalent qualification

Bachelor of Science in Accountancy

- Higher Diploma or Diploma in a Business Course or Equivalent OR CPA/CPS Part II or Equivalent or
- KCSE mean grade of C+ with C Plain in Mathematics and English/Kiswahili, Any group III, Any group II/2nd group III/ any group IV/any group V OR equivalent qualification

Diploma in Accountancy

KCSE Mean Grade C-minus with D Plain in English, Maths or Business Studies/Commerce/Accounting/Economics

Duration: B.Com: 9 semesters for KCSE. 4 semesters for KPUC/TU-K Diploma, 5 semesters for other Diploma BSc.Acc: 9 semesters for KCSE, 4 semesters for KPUC/TU-K Diploma, 5 semesters for other Diploma **Diplomas:** 7 semesters

* Please seek clarification on exact duration from the Department, Duration may vary for some programmes



2. Department of Business Administration

This department offers Business Management courses and Seminars for both Public and Private sectors.

COURSES OFFERED

- Bachelor of Commerce in: Business Management Entrepreneurship Human Resource Management • Insurance Management • Logistics and Supply Chain Management • Operations Management • Sales and Marketing
- Bachelor of Philosophy in Business Management Options: Human Resource • Entrepreneurship • Business Administration • Sales and Marketing
- Bachelor of Philosophy in Office Administration
- Bachelor of Technology in Office Administration
- Diploma in Business Studies: Business Administration Sales and Marketina • Human Resource Management • Procurement and Supplies Management
- Diploma in Secretarial Studies: Legal Secretarial Medical Secretarial • Business Secretarial • Foreign Language Secretarial
- Diploma in Management
- Diploma in Banking
- · Diploma in Supplies Management
- ABE Diploma in Business Management
- ABE Advanced Diploma in Business Management
- ABE Diploma in Human Resource Management
- Advanced Certificate in Supplies Management
- Advanced Certificate in Business Administration
- Certificate in Supplies Management
- Certificate in Business Administration
- ABE Certificate in Business Management

- ABE Certificate in Human Resource Management
- Certificate in Business Studies
- Certificate in Procurement and Supplies Management
- Certificate in Sales and Marketing
- Short Courses: Business Calculations Commerce Storekeeping Business English • Shorthand • Computerized Document Processing (CDP) • Office Procedures • Office Management

PROGRAMMES FOR SEPTEMBER 2013

Minimum | Bachelor of Commerce - Options: Business Management Qualifications: • Human Resource Mat • Marketing Management • Procurement and Supplies Mgt. • Entrepreneurship • Insurance

- Higher Diploma (HDip.) in Business Management or Equivalent OR
- Diploma in a Business Course or Equivalent or
- CPA/CPS Part II or Equivalent

Bachelor of Commerce - Options: Business Management • Human Resource Mgt • Marketing Management • Logistics and Supply Chain Management • Entrepreneurship • Insurance

 KCSE mean grade of C+ with C in Mathematics and English/ Kiswahili, Any group III, Any group II/2nd group III/any group IV/any group V OR equivalent qualification

Bachelor of Technology in Office Administration and Technology

• Diploma in a Secretarial Studies or Equivalent

Diploma in Business Studies Options: Business Administration • Human Resource Management • Sales and Marketing Management • Procurement and Supply Chain Management

- KCSE Mean Grade C-minus with D Plain in English, Maths OR Business Studies/Commerce/Accounting/Economics or
- Certificate in Sales and Marketing (KPUC OR EQUIVALENT) Advanced Certificate in Supplies Management (KNEC) Advanced Certificate in Business Administration (KNEC)

Diploma in Office Administration: Legal Secretarial • Medical Secretarial • Business Secretarial • Foreign Language Secretarial

• KCSE Mean Grade C-minus with D Plain in English, Maths OR Business Studies/Commerce/Accounting/Economics OR a Certificate in Secretarial Studies

Certificate in: Business Studies • Sales and Marketina • Procurement and Supply Chain Management

KCSE Mean Grade D Plain

Intake: September

Duration: B.Com: 9 semesters for KCSE, 4 semesters for KPUC/TU-K Diploma, 5 semesters for other Diploma **B.Tech**: 9 semesters for KCSE, 4 semesters* for KPUC/TU-K

Diploma, 5 semesters for other Diploma

Diplomas: 7 semesters Certificate: 3 semesters

* Please seek clarification on exact duration from the Department. Duration may vary for some programmes

3. Department of **Economics and Development Studies**

The Department of Economics and Development Studies equips trainees with knowledge and skills on efficient economics and development.

COURSES OFFERED

Bachelor of Economics

PROGRAMMES FOR SEPTEMBER 2013

Minimum Qualifications:	Bachelor of Economics KCSE mean grade of C+ with C Plain in Mathematics and English/Kiswahili, Any group III, Any group II/2nd group III/any group IV/any group V OR equivalent qualification
Intake:	September
Duration:	9 semesters

4. Department of Law and Legal Studies

This department recognizes the pressing market needs for para-legal personnel, at both management and support staff in all levels of our economy. To meet this need, the Department offers a Diploma course in Legal Studies to furnish candidates with adequate skills for the management of legal issues at the work place.



COURSES OFFERED

- Bachelor of Arts in Legal Studies
- Diploma in Legal Studies

PROGRAMMES FOR SEPTEMBER 2013

Minimum Qualifications:	Diploma in Legal Studies KCSE Mean Grade C-minus and D Plain in Maths OR any relevant advanced certificate from a recognized institution
Intake:	September
Duration:	7 semesters

5. Department of Management Science and Technology

The Department of Management Science and Technology is involved in training high calibre professionals for diverse organizations capable of dealing with the emerging complex and current technological challenges. The department also offers training in research and consultancy in operations Management and Management Information Systems.

COURSES OFFERED

- Bachelor of Technology in Business Information Technology
- Diploma in Business Information Technology
- Certificate in Business Information Technology

PROGRAMMES FOR SEPTEMBER 2013

Minimum | Bachelor of Technology in Business Information Technology

- **Qualifications:** KCSE mean grade of C+ with C Plain in Mathematics and Physics, 2nd group II/Any group III, any group II/any group III/IV/V OR equivalent qualification or
 - Higher/Advanced Diploma in Information Technology or Computer Science or
 - Dip. Tech. Business Information Technology, Diploma in Information Technology, Computer Science or Equivalent

Diploma in Business Information Technology

KCSE Mean Grade C-minus with D Plain in English, Maths OR Certificate in Information Technology

Certificate in: Business Information Technology

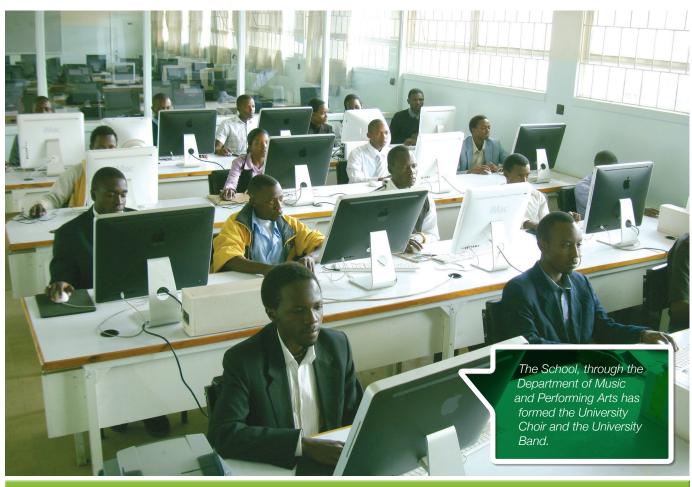
KCSE Mean Grade D Plain

Certificate: 3 semesters

Intake: September

Duration: B.Tech: 9 semesters for KCSE, 4 semesters* for KPUC/TU-K Diploma, 5 semesters for other Diploma Diplomas: 7 semesters

* Please seek clarification on exact duration from the Department. Duration may vary for some programmes



B. SCHOOL OF CREATIVE ARTS AND TECHNOLOGIES

Whenever creativity and technology come together, there can only be one result: **PERFECTION.** And that's why whenever you train with us, your satisfaction is **JUST** as good as your expectations...



School of Creative Arts and Technologies at The Technical University of Kenya offers training in Design and Creative Media, Fashion and Textiles,
 Journalism and Mass Communication, Music and Performing Arts, and Printing Media and Technologies. These form the visual part of the creative industries

It remains one of the leading Schools of Creative Arts and Technology in the University. The courses are tailored towards developing creativity and acquisition of skills for a wider choice of careers. The School, through the Department of Music and Performing Arts has begun the University Choir and the University Band.

QUICK FACTS ABOUT THE SCHOOL

- The Technical University of Kenya is proudly the only public institution of higher learning that offers training in printing technology, and as such, attracts applicants from respected organisations across the Eastern African region.
- The Diploma in Art and Design at The Technical University of Kenya is the most recognised academic programme for the technical workforce in the publishing and advertising industry in Kenya.
- The Technical University of Kenya graduates the country's highest number of students in the line of print media yearly.
- The iMac (pictured) is the most popular Desktop Publishing computer the world over, due to its user-friendly interface and clarity in display. School of Creative Arts and Technologies has invested heavily in this Design tool, and that is why our graduates meet the stipulated standards.





1. Department of **Design and Creative Media**

The department of Design and Creative Media facilitates creation of eye-catching products for print and electronic media. It equips students with knowledge of visualisation, concept development, design techniques, good sense of colour and illustration.

CAREER PROSPECTS:

It is expected that those who have studied and graduated in the areas of Design and Creative Media will find exciting opportunities in publishing houses, advertising agencies, public relations companies, broadcasting houses and multimedia production agencies. However, with the growing business opportunities in manufacturing, education, healthcare and agricultural sectors, there has been dire need for creative services in advertising, publishing, packaging and broadcasting. This has in turn driven organisations to recruit creative designers to their workforce, rather than rely exclusively on consultants.

COURSES OFFERED

- Bachelor of Technology (Design)
- Diploma in Technology (Design)
- Diploma in Graphic Design and Communication
- Certificate in Graphic Design

PROGRAMMES FOR SEPTEMBER 2013

Minimum Qualifications:

Bachelor of Technology in Design

- Diploma in Design from a recognised institution or
- KCSE mean grade C+ (plus) and at least C+ in English and Art and Design (or a portfolio of graphic design work)

Diploma in Technology in Design

 Mean grade C- (minus) at KCSE or equivalent plus C-(minus) in English and C- (minus) in Art and Design (or a portfolio of graphic design work) OR a Certificate in Design from a recognised institution.

Certificate in Technology (Communication Design/Product Design)

 Mean grade D+ (plus) at KCSE or equivalent. A portfolio of design work would be an added advantage

Intake:	September
Duration:	B.Tech: 10 semesters for KCSE, 6 semesters for Diploma Diplomas: 7 semesters Certificate: 3 semesters

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2. Department of Fashion and Textiles

The Department of Fashion and Textiles prepares students to develop creative and entrepreneurial skills in designing fashionable products that conform to market trends.

The Department equips students with specialized knowledge and technical skills in clothing, textile and beauty technology. It also provides training which enables graduates to create and broaden their scope of knowledge in business and careers.

CAREER PROSPECTS:

The fashion and textile industry looks up to our graduates to provide technical skills required in provision of products and services that serve both functional and aesthetic values. At the end of this course, our trainees will be absorbed in textile industries such as: EPZ, Design bouses, Boutiques, Garment manufacturers, Theatres and studios. They can also choose to venture into Consultancy, Self-employment, or seek careers in technical training.

COURSES OFFERED

- Diploma in Clothing Technology
- Diploma in Fashion Design and Garment Making
- · Certificate in Fashion Design and Garment Making
- Certificate in Hairdressing and Beauty Therapy

PROGRAMMES FOR SEPTEMBER 2013

TROOKAMMED FOR CEITEMBER 2010	
Minimum Qualifications:	Certificate in Hair Dressing & Beauty Therapy • KCSE D+ (plus) Cert. in Fashion Design & Garment Making • KCSE D+ (plus)
Intake:	September
Duration:	3 semesters

3. Department of Journalism and Mass Communication

The department offers training in the discipline of Journalism. In this discipline, we offer journalistic writing, photography and photojournalism. We sharpen the students' capacity in Linguistic skills, creative self-expression, and reasoned criticism and research techniques. Students are also taught television and radio production.

CAREER PROSPECTS:

Our graduates will proceed to become writers, reporters or editors in newsrooms — print or electronic — and owing to the practical skills acquired, they will be able to bandle journalistic equipment and processes with a lot of aptitude. They also have the choice to work as communications and public relations experts, and will work as the link between the organisation they work for and other stakeholders.

COURSES OFFERED

- Bachelor of Technology in Journalism and Mass Communication
- Diploma in Technology (Journalism and Public Relations)
- Certificate in Photography and Audio Visual

PROGRAMMES FOR SEPTEMBER 2013

Minimum Qualifications:	Bachelor of Technology in Journalism and Mass Communication Diploma in Journalism and Mass Communication from a recognised institution or KCSE Mean Grade C+ (plus) and at least C+ in English or Kiswahili and a pass in Mathematics Diploma of Technology in Journalism and Mass
	KCSE mean grade C- (minus) and at least C- in English or Kiswahili and a pass in Mathematics
	KCSE D+ (plus) with interest in photo journalism
Intake:	September
Duration:	B.Tech : 10 semesters for KCSE, 6 semesters for Diploma Diplomas : 8 semesters Certificate : 3 semesters

4. Department of **Music and Performing Arts**

The department offers practical courses in music, theatre and film studies. In addition, we integrate performance and the arts industries with an interdisciplinary approach in a unique and innovative way that reflects the diversity, excitement and challenges of the new millennium. All these approaches aim to take music and performance practice beyond their conventional boundaries. The emphasis is to bring together the disciplines of music, dance,

drama, theatre and film studies with the arts and digital technologies in the audio-visual areas required for a holistic, technical and vocational education. We draw on the rich African heritage in the arts while exposing students to the excitement and innovations of Western cultures. Students' cultural identity and personal viewpoints will act as the foundations for their expressive explorations.

Theatre design covers designing for the theatre and the broader spectrum of opportunities found within performance media. These programmes will explore space, the figure and visual direction as a means of creating statements for a wide range of performances context including text, dance, sound and music. They offer a wide variety of training, incorporating traditional theatre design practice through the application of new technology as part of the visual and auditory communication networks.

CAREER PROSPECTS:

It is expected that those who have studied and graduated in the areas of Design and Creative Media will find exciting opportunities in publishing houses, advertising agencies, public relations companies, broadcasting houses and multimedia production agencies. However, with the growing business opportunities in manufacturing, education, healthcare and agricultural sectors, there has been dire need for creative services in advertising, publishing, packaging and broadcasting. This has in turn driven organisations to recruit creative designers to their workforce, rather than rely exclusively on consultants.

COURSES OFFERED

- Diploma in Music
- Certificate in Music

PROGRAMMES FOR SEPTEMBER 2013

Minimum Qualifications:	Bachelor of Music KCSE mean grade C+ and above with at least B in Music and C+ in other cluster subjects(English/Kiswahili, Maths and any Group II or any Group III, any Group II or Group III or Group IV or Group V OR equivalent qualification
	Certificate in Music KCSE D+ (plus) with an interest, aptitude &desire to succeed in music. Evidence of participation in musical activities such as music and cultural festivals, drama festivals, Provincial & National Talent Academies, choir, home & studio based recordings, traditional, secular & gospel music participation will be an added advantage
Intake:	September
Duration:	B.Mus: 10 semesters Certificate: 3 semesters

5. Department of Printing and Media Technology

The department provides a comprehensive practical grounding in all aspects of prepress, press preparations, print and post printing processes. The course also looks closely at digital media production and prepares students for the diverse and technically advanced Print industry. The course is designed to enable art and design graduates and creative practitioners to develop knowledge and skills to use Computer Aided Design (CAD) software and digital imaging and colour manipulation techniques in the development of design ideas.

CAREER PROSPECTS:

At the end of the course, the trainee should be able to work effectively and efficiently in a printing press, publishing house or in packaging industry. This is thanks to the technical and conceptual skills acquired in print technologies at The Technical University of Kenya. The trainee should take advantage of the pride that we take across the eastern African region and beyond as the most respected trainers in print media technologies.

COURSES OFFERED

- Bachelor of Philosophy (Printing)
- Higher Diploma in Printing Technology
- Diploma in Printing Technology
- Diploma in Printing and Packaging
- Certificate in Print Origination
- Certificate in Machine Printing
- Certificate in Print Finishing

PROGRAMMES FOR SEPTEMBER 2013

Minimum Qualifications:	Bachelor of Philosophy in Technology (printing) • Higher Diploma in Printing Technology Diploma of Technology in Printing • K.C.S.E Mean Grade C- Certificate in: Machine Printing • Print Origination • Print Finishing • K.C.S.E Mean grade D+
Intake:	September
Duration:	B.Phil: 4 semesters Diplomas: 8 semesters Certificate: 3 semesters



C. SCHOOL OF HOSPITALITY AND TOURISM MANAGEMENT

"We want to be a world-class technological, innovative, practical and application-oriented school of hospitality, leisure services and tourism management in the region and Africa as a whole. Guided by the core values of excellence in education, training as well as respect, responsiveness and compassion towards students and staff, we have continued to surpass our peers in as far as placement of students is concerned. We want to be your school of choice. "

School of Hospitality and Tourism Management aims at producing highly competent, technological, and application-oriented practitioners and managers for the hospitality, leisure and tourism industries. Graduates of this programme can work as Supervisors, Tour and Travel Guides, Cruise and Airline Crew, Event Planners, Chefs, Hotel and Restaurant Managers, Catering Managers, Executive Housekeepers, Laundry Operators, Tourism Advisors, Consultants and /Strategists and operations personnel.

QUICK FACTS ABOUT THE SCHOOL

- The School of Hospitality and Tourism Management develops high quality, technological, innovative, application oriented and entrepreneurial graduates for the hospitality, leisure and tourism industries.
- The Diploma in Catering and Institutional Management graduates are the preferred choice for schools and universities in the management of hostels, residential institutions and hospital catering services.
- Event and Convention Management has been practiced here over many years and long before the training programmes were developed.
- Galileo –Travel port Kenya has made this school the training centre of choice for the Galileo Air Ticketing training program.
- School of Hospitality and Tourism Management continues to successfully run training services for staff in TU-K at the Red Bull Training Restaurant, Senior Staff Common Room, Main Canteen, Ladies and Men's Hostels.
- Faculty at the School of Hospitality and Tourism Management engage in basic and applied research intended to generate knowledge and address problems facing the hospitality, leisure and tourism industries
- The School of Hospitality and Tourism Management collaborates with communities to deliver effective extension, outreach and consulting programs to enhance the quality, productivity and contribution of small and medium sized hospitality, leisure services and tourism enterprises

1. Department of **Event and Convention Management**

In this department, students acquire skills and knowledge required to pursue a career in the management, planning and marketing of corporate events, conventions and meetings; festivals and social events.

COURSES OFFERED

- Bachelor of Technology in Event and Convention Management
- Diploma in Event Management
- Certificate in Event Planning



2. Department of Catering and Institutional Management

The Department offers education and training in Institutional Catering, Housekeeping, Laundry and Accommodation operations and management. Our degree, diploma and certificate programmes equip students with skills and knowledge that will allow for practice as supervisors and managers in the industry. These are highly interactive and practical courses and students are exposed to on campus basic practical training and in-service practical classes. They are also exposed to the industry for a four month mandatory practical attachment.

COURSES OFFERED

- Bachelor of Technology in Catering and Institutional Management
- Diploma in Technology in Catering and Institutional Management
- Diploma in Technology (Housekeeping and Front Office Management)
- Certificate in Housekeeping and Laundry Operations
- Certificate in Catering and Housekeeping Operations





PROGRAMMES FOR SEPTEMBER 2013

Minimum | Bachelor of Technology in: Institutional Catering and Qualifications: Accommodation Management

Diploma (TEP) or Diploma in Technology in: Institutional Catering and Accommodation Management

Diploma of Technology in: Institutional Catering and **Accommodation Management**

 KSCE Mean Grade C-(minus) with a pass in English and Mathematics or Pass in Certificate in Travel and Tour Operations from KPUC or Equivalent

Diploma in Housekeeping and Front Office Management

Certificate in Housekeeping and laundry operations from KPUC or Equivalent

Certificate in Catering and Housekeeping operations

Certificate in Housekeeping and Laundry Operations

• O-level with minimum of D+ or equivalent

Intake: September

Duration: B.Tech: 5 semesters

Diplomas: 8 semesters (5 semesters for Housekeeping and Front Office)*

Certificates, short courses: 2 semesters

* Please seek clarification on exact duration from the Department. Duration may vary for some programmes

CAREER PROSPECTS:

B. Tech Catering and Institutional Management – Management of Hotels, Hospitals, Hospitals, Uniformed Services Mess, Residential Institutions, Cleaning Companies, Laundry and Dry Cleaning firms. • Diploma in Catering and Institutional Management – Middle Management levels Hotels, Restaurants, Hostels, Hospitals, Colleges, and Residential Institutions • Diploma in Housekeeping and Front Office Management - Middle Management levels in Hotels, Residential Institutions and Laundries • Certificate Catering and Housekeeping Operations — Operational levels in Hotels. Restaurants Residential Institutions and Hospitals

3. Department of Hotel and Restaurant Management

The Hotel and Restaurant Management programmes prepare students for careers in the hospitality industry. The Major emphasis is on practical applications, supervision and management. Students undertake a mandatory four Month Industrial attachment practicum in four and five star hotels.

COURSES OFFERED

- Bachelor of Technology in Hotel and Restaurant Management
- Diploma in Technology in Hotel and Restaurant Management
- Certificate in Food and Beverage Production and Service

PROGRAMMES FOR SEPTEMBER 2013

Minimum Diploma of Technology in Hotel and Restaurant Management **Qualifications:** • KSCE Mean Grade C-(minus) with a pass in English and

Mathematics or Pass in Certificate in Food and Beverage Service

OTHER REQUIREMENTS: Full Cooks and Service uniform, kitchen knife, 3 kitchen cloths, 3 dish cloths, oven gloves, 3 order pads, bottle opener, own stationery. (Uniform available in the School)

Certificate in Food and Beverage Production and Service

- O-level with minimum of D+ or equivalent.
- OTHER REQUIREMENTS: Uniform- Production & Service, 2 waiters cloths, 2 order pads, bottle opener, own stationary, course text; chef's uniform, kitchen knives and kitchen

Basic Cake Making and Decoration (Non-Examinable)

- Any interested persons for leisure, domestic or commercial: OR Any formal academic certificate;
- Kitchen uniform, Tea cloths, Dish cloths, Icing kit;
- Cake decoration tools can be purchased through the Department

Pastry and Cake and Making (Non-Examinable)

- Any interested persons for leisure, domestic or commercial. Any formal academic certificate.
- Kitchen uniform, Tea cloths, Dish cloths, Icing kit

Intake: September

Duration: Diploma: 8 semesters

Certificates, short courses: 2 semesters

CAREER PROSPECTS:

B. Tech Hotel and Restaurant Management – Management of Hotels, Resorts, Lodges, Entertainment Clubs, County Clubs, Restaurants, Hospitals, Cruise Ships, Airline Services, Education and Research Institutions • Diploma in Hotel and Restaurant Management – Middle Management levels in Hotels, Restaurants, and Residential • Certificate in Food & Beverage Production & Service – Operational levels in Hotels, Restaurants, Hospitals and Residential Institutions

4. Department of Tourism and Travel Management

The department offers education and training in tourism and equips the students with the skills that will normally allow for eventual practice as tourism business owners, air and sea travel services, tour operators, travel agents tourism marketing managers, tourism destination managers, tourism product development among other managerial jobs.

COURSES OFFERED

- · Bachelor of Technology in Tourism and Travel Management
- Diploma in Tourism and Travel Management
- Certificate in Travel and Tours Operations
- Certificate in Tour Guiding

PROGRAMMES FOR SEPTEMBER 2013

Minimum Qualifications:

Bachelor of Technology in: Tourism and Travel Management Diploma (TEP) or Diploma in Technology in: Tourism and Travel Management or equivalent

Diploma of Technology in: Tourism and Travel Management

 KSCE Mean Grade C-(minus) with a pass in English and Mathematics or Pass in Certificate in Travel and Tour Operations from KPUC or Equivalent **Certificate in Travel and Tour Operations**

Intake:	September
Duration:	B.Tech: 5 semesters Diplomas: 8 semesters Certificates. short courses: 2 semesters

CAREER PROSPECTS:

B. Tech Tourism and Travel Management – Management level in Tourism Industry, Tour Companies, Air, Sea, Destination Marketing Organizations, Tour Offices, Rail and Road Travel Sectors • Diploma in Tourism and Travel Management – Middle Management levels in Tourism, Tours and Travel sectors





D. SCHOOL OF SOCIAL AND TECHNOLOGY STUDIES

"The unique mix of socio-cultural studies and information science enhances a seamless flow of information, hence, making the world a bette olace to live in. We've got a variety of courses that will mould you into a flawless communicator".

School of Social and Technology Studies, under Faculty of Liberal and Professional Studies was established in December 2008 during the restructuring of The Technical University of Kenya. Courses offered in the School blend theory with practice. Teaching methods consist of lectures, seminars, practical, demonstrations, written assignments, project work, field visits and tours, problem solving, synthesis and industrial attachment. The School endeavours to provide education and training in line with the Vision and Mission of TU-K and Kenya's National Development Agenda. The training programmes are also geared to meet the aspirations of the Vision 2030.

We integrate ICT in the teaching of our courses and programmes which seeks to promote knowledge in Science, Technology and Innovation (STI).

QUICK FACTS ABOUT THE SCHOOL

- Two degree programmes are offered namely: Bachelor of Technology in Information Studies and Bachelor of Arts in International Relations and Diplomacy. The other programmes are offered at Certificate and Diploma level.
- It houses the Directorate of Common Undergraduate University courses teaching the following units: Communication Skills, Society and Culture, Critical and Creative Thinking.
- The school unveils the role of society in the growth and development of human social behaviour. It also examines the interface between science, technology and society.



1. Department of Languages and Communication Studies

The primary focus for this department is the implications and applications of linguistic ideas in real life situations. The department introduces key concepts to the understanding of the relationship between language and society, the use of language in public, private and professional discourse. This department offers Communication Skills and Foreign languages.

CAREER PROSPECTS:

It is expected that the graduates who are offered courses in Communication Skills and Foreign Languages can find employment in print and electronic media, advertising firms, publishing houses, public relation organizations, translation and interpretation, United Nations Agencies.

2. Department of **Library and Information Science**

The department provides education and training through an inter-disciplinary approach by integrating computer science, information technology, knowledge Management, Library and Information studies, Records Management, Publishing and book trade, information system and user studies. The programmes emphasize on problem solving, application, synthesis of knowledge, change management and innovation. Trainees are able to respond to the challenges of information and knowledge provision and management and contribute to improving professional ethics and standards

COURSES OFFERED

- Bachelor of Technology in Information Studies
- Diploma in Technology in Library and Information Science
- Diploma In Technology in Archives and Records Management
- Certificate in Library Studies
- Certificate in Archives and Records Management

PROGRAMMES FOR SEPTEMBER 2013

Minimum Qualifications:

Bachelor of Technology in Information Studies

- Diploma in Technology (Library & Information Technology) or Diploma in Technology (Archive and Records Managements) or Diploma in Information Science

 September 2016 (Challed and Atlanta Challed Science)
- KCSE mean grade C+ (plus) and at least C+ in cluster subjects.

Diploma in Technology (Library & Information Technology)

 KNEC Cert. in Information Studies or KPUC Cert. in Library Studies or C-(minus) or Div.III

Diploma in Technology (Archive and Records Managements)

 KNEC Cert. in Information Studies or KPUC in Archives and Records Management or C- (minus) or Div.III

Diploma in: Archives and Records Management • Library and Information Science

KCSE C- (Minus)

Certificate in: Archives and Records Management • Library & Information Technology

KCSE D+ (Plus)

Intake:

September

Duration:

B.Tech: 10 semesters for KCSE, 5 semesters for Diploma

Diplomas: 7 semesters **Certificates:** 2 semesters

CAREER PROSPECTS:

In a knowledge-based economy, the career perspectives for Information Sciences graduates are plenty. Graduates of information science will find opportunities in a wide range of industries and public institutions. They take on positions as consultants, analysis, designers, project coordinators, ICT programme managers and researchers, Information brokers, knowledge managers, inforpreneurs, librarians and records managers in academic institutions, NGO's, International organizations and UN agencies.



3. Department of Psychology and Counselling

The Department trains ethical professional counsellors in areas of psychology, counselling skills and techniques. The Students graduate endowed with strong practicum skills, academic research skills, counselling skills and high professionalism.

COURSES OFFERED

- Diploma in Counselling Psychology
- Certificate in Counselling Psychology

SHORT COURSES

- HIV/ AIDS Counselling (Holiday)
- Drug and Substance abuse (Holiday)
- Stress Management
- Pre-marital Counselling
- Loss and Grief Counselling
- Basic Counselling Skills

PROGRAMMES FOR SEPTEMBER 2013

TROOKAMMES FOR SELFEMBER 2015	
Minimum Qualifications:	Bachelor of Science in Counseling Psychology Diploma in Counseling Psychology or Diploma in Guidance Counseling or Higher Diploma in Counseling Psychology or Higher Diploma in Guidance Counseling a or Equivalent qualification KCSE mean grade C+ (plus) and at least C+ in cluster subjects Certificate in: Counseling Psychology KCSE D+ (Plus)
Intake:	September
Duration:	BSc: 10 semesters for KCSE, 5 semesters for Diploma Certificates: 2 semesters

CAREER PROSPECTS:

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Trainees are expected to find employment in orphan homes and rehabilitation centres, Health institutions and NGO's, Prisons, teaching institutions, nursing homes, police department, social and community health departments, human resource departments, industrial/organisational.

4. Department of **Science and Technology Studies**

The department offers inter-disciplinary courses that provide a theoretical foundation, and equips students with conceptual and analytical skills in disaster management, science and technology policy, planning and management.

COURSES OFFERED

- Diploma in Technology in Disaster Management
- Certificate In Disaster Management

CAREER PROSPECTS:

It is expected that those who have undertaken courses in the department will find opportunities in local authorities, central government, armed forces, Ministry of Health, NGO's such as Red Cross, AAR and those NGO's based in disaster zones and commercial hazard mitigation organizations.

5. Department of Social and Intercultural Studies

The department equips students with relevant skills and attitudes to promote social change, resolve human relationship conflicts, empower and capacity build communities to enhance co-existence and well being. The department works closely with NGOs involved in community development affairs thus providing the students firm grounding in social justice and governance of Community Based Organizations. Social Responsibility is enhanced through participation in Community Service and global campaigns and/or forums on various.

COURSES OFFERED

- Bachelor of Arts in International Relations and Diplomacy
- Diploma in International Relations and Diplomacy
- Diploma in Social Work and Community Development

PROGRAMMES FOR SEPTEMBER 2013

Minimum Qualifications:	Bachelor of Arts in International Relations and Diplomacy Diploma in International Relations and Diplomacy or Diploma in International Studies KCSE mean grade C+ (plus) and at least C+ in cluster subjects
Intake:	September
Duration:	10 semesters for KCSE, 5 semesters for Diploma

CAREER PROSPECTS:

Graduates of International Relations and Diplomacy will find opportunities in International organizations, civil service, security agencies, NGOs, foreign missions and multinationals. They will engage in consultancy on political risks, tourism management, policy and governance issues. Social Work and Community Development graduates will be placed in civil service, local and international NGO's, rehabilitation centres, bealth care centres, academic institutions, financial institutions, judiciary, charitable children institutions, homes for aged, faith based organizations and SME.



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CENTRE FOR ENTREPRENEURSHIP INNOVATION AND TECHNOLOGY TRANSFER

The future of an invention lies in its ability to earn some revenue. That's why you should learn some entrepreneurial skills.

Creating jobs, or turning job seekers to job creators is not the only objective of teaching Entrepreneurship. Wealth creation, economic and social developments are part of global development goals that each nation tries to achieve.

for Entrepreneurship Innovation and Technology Transfer – CEITT is a key unit in TU-K, with the mandate of teaching Entrepreneurship Development to all the students of the University College. Entrepreneurship Education is very important to any nation in the world and Kenya has underscored this in the National Development goals and plans. Like many countries, Kenya has the challenge of providing employment, especially for the many youth who graduate each year university with big dreams of earning a living. With the job market shrinking globally, a new strategy is to create jobs by exploring all opportunities available.

Creating jobs, or turning job seekers to job creators is not the only objective of teaching Entrepreneurship. Wealth creation, economic and social developments are part of global development goals that each nation tries to achieve. Kenya is laying a lot of emphasis on this through promotion and development of Entrepreneurship Education in all sectors of the economy.

CEITT is making an important contribution towards the national strategy on economic growth as outlined in the Vision 2030. Entrepreneurial skills empower our graduates to identify competitive and viable business ideas and opportunities. Armed with creative and innovative ideas, a reasonable number of our graduates have been able to start and manage very profitable business enterprises. Entrepreneurial skills have also made our graduates very attractive to the job market in all sectors of the economy. Intrapreneurs are as important as entrepreneurship. They bring innovative but viable ideas that drive their employers' businesses to high heights of profitability and wealth creation. The entrepreneurial skills imparted to students of TU-K are useful to those who want to start and operate their own businesses, while still in school. Many students are running profitable businesses, and others are equipped and prepared for future ventures.

In partnership with Ministry of Youth, we have and continue to expose our students to techniques of benefiting from the Youth Enterprise Fund. Business planning skills have enabled guite a number to access the fund through the Microfinance Institutes across the country.

1. Business Development Unit

This unit is concerned with building the capacity of practicing and aspiring entrepreneurs, through training in short courses that range from one day to six months. It is a Business Service Provider whose mandate includes:

- Networking development among entrepreneurs and other stakeholders
- Organizing Entrepreneurship Conferences, workshops and symposiums.
- Mentorship programme for young entrepreneurs
- Business Counselling and Rehabilitation
- Business Consultancy
- Business Coaching
- Community Outreach in Entrepreneurial Skills

SHORT COURSES

- Entrepreneurship & Innovation
- Start your own business

SEMINARS AND WORKSHOPS

- Business Start-up
- Business Plan Development
- Project Management
- Managing Business Growth
- Fleet Management and Transport Logistics
- · Defensive Driver Training Programme
- Cash flow Management
- Debt and Credit Management
- Supervisor Training
- Workshop Organization and Administration

CAREER OPPORTUNITIES:

Participants in our short courses and seminar gain practical skills and have their business skills capacities built to enable them achieve the following: Improved business output and profitability • Access to funding for their business projects • Continual support for business management • Induced growth and expansion for their businesses • Professional approach to business ownership • Informed business decision making

2. Entrepreneurship Development Unit

Concerned with teaching of Entrepreneurship to both module 1 and module 2 students of TU-K. It's mandate is to ensure that all the students in the University College are taught Entrepreneurship skills, write a business plan based on a viable business idea. This unit is expected to manage the postgraduate academic programs.

CAREER OPPORTUNITIES:

Our graduates have a wide range of career opportunities. Entrepreneurship Skills at this level empower graduates to become Business Managers in various sectors of the economy including: Banking • Microfinance • Marketing • Government Ministries and Departments • NGOs in Community Development Project as Project Managers or Directors • Management Consultant • Entrepreneurs • Mentors • Business Service Providers • Investment Consultant • Business and Management Trainers

3. Technology Incubation Unit

Small and medium enterprises (SME's) are considered to be one of the principal driving forces of Kenya's economy. However, SME's contribution to Economic Development has not realized their full potential due to enterprise survival, growth and expansion challenges.

Business/Technology incubation will address these challenges by offering infrastructure where on site workshop/office and administrative services, and assistance in various areas such as technical support services, access to financing, Counselling, marketing, access to equipment, management assistance etc can be provided to business start-ups in a bid to enhance their rate of success.

It is an interactive developing process which aims to encourage people to start their own businesses, and which supports start-up companies engaging in the development of innovative products and services.

Incubation 'hybrid' model will be adopted to provide incubators "within walls" and "without walls". Within walls incubators will be housed at the incubator facility and without walls or virtual incubation, will involve incubatees receiving services at their location. Incubation will mainly offer business development services (BDS) on site and also online.

SERVICES OFFERED BY THE INCUBATOR

- Reception
- Photocopying, Laminating and Binding
- Couriers
- Telephone & Internet
- Internet
- Meeting Room Hire
- Bureau services
- Virtual officer Service
- **Business Development Services**
- Networking and partnership
- Innovation Guide

4. Technology Transfer Unit

This is concerned with identification and development of innovative technology-based idea for the real world. The mandate of this unit is to develop and transfer technology to the end-users for the purpose of industrialization, social and economic development and as well as building individual capacity for technology innovation. The functions of this unit include:

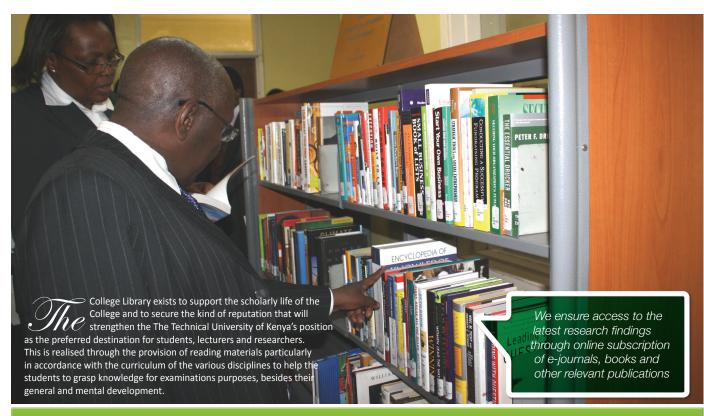
- Innovative idea generation
- Technology Development
- Intellectual Property Protection through patenting, Trade Marks and Copyrights.
- Commercializing of viable innovative ideas
- Technology transfer to industry and community

It will also provide technology development, dissemination and technology transfer to incubatees, thus supporting innovations spin offs from research and engineering graduates.

Some of the areas being considered as possible projects include:

- Renewable Energy e.g. wind and solar energy
- Water Catchment and Conservation
- Domestic Appro-tech e.g. Energy Saving Jikos, Cereal shellers, Cane Crushers, water pumps etc.
- Agri-Technology farm trollies, motor-driven or animal driven carts
- Industrial Technology plant parts, building and construction materials etc.





THE TECHNICAL UNIVERSITY OF KENYA LIBRARY SERVICES

One of the primary sources of knowledge in a higher learning or research institution is the LIBRARY. This is why we have embarked on an aggressive process of restocking and expanding our library facilities.

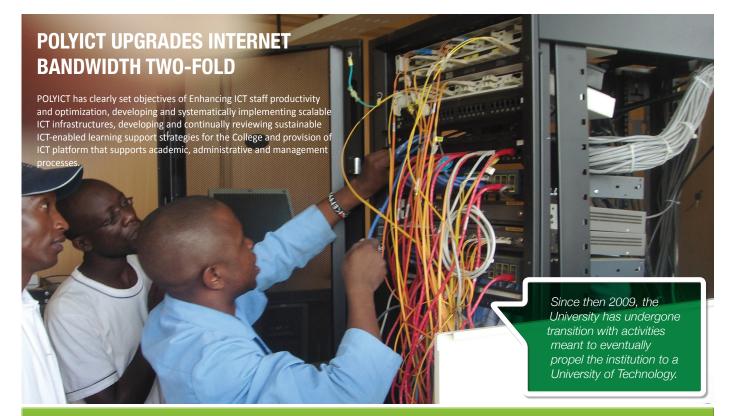
The Library provides a wide range of library and information services to support the students and staff of the institution. The Library collection is made up of textbooks, reference sources, periodicals, electronic journals, newspapers and Government publications.

The books total about 50,000 and comprise of titles relevant to the various fields taught at The Technical University of Kenya.

We have also subscribed to online journals, which can be accessed from anywhere within the College. Like all other academic libraries, the TU-K Library is faced with the dilemma of keeping up with the new electronic forms of information. The Library is however committed to making the library more productive, innovative, and entrepreneurial to fulfil its role of providing access by students and staff to all the information they need without regard for its location or format.

OBJECTIVES OF THE LIBRARY

- Support the curriculum needs of the students and teaching faculty through provision of information materials:
- 2. To acquire suitable materials for teaching, learning and research activities within the TU-K
- Development of life skills and lifelong learning through information literacy programmes



CENTRE FOR COMPUTING AND INFORMATION SERVICES

One of the characteristics of a university of technology is that it embraces Information and Communication Technology in teaching, learning, research, administration and networking. TU-K has taken this seriously.

ICT staff are constructing a highly interactive University website, which is set to enable online registration of new students.

POLYICT, working with relevant sections, is developing a new scalable management Information System that is expected to support a wide range of new and innovative services including flexible enrolment, self-service option among others. The students' module should be ready by January 2013. Since it is internally developed, it will be flexible and easily adaptable to the changes of the University.

From October 2012, TU-K upgraded its internet

bandwidth from 19 Mbps uplink and 17Mbps downlink to 35 Mbps Uplink/downlink. The institution expectation is approximately 70 Mbps since the usage of web-based applications and system within TU-K is already on the increase.

TU-K also became a beneficiary of a Google funded wireless network. The project is being implemented by Kenya Education Network (KENET) and should be commissioned in the first quarter of 2013. This deployment of wireless and the ongoing wired infrastructure will go a long way in facilitating access to University resources using Tablets, Cell-phones,

Laptops, among other devices.

Through CHINA-TVET-TU-K cooperation, TU-K has acquired a new 60-PC laboratory, among other equipment, to greatly boost the ICT resource base in the institution.

The e-Learning (course management) platform (model) has been configured and should be rolled out next semester for use in the institution. Activities planned by the POLYICT working closely with the central management have been selected with the goal of embedding ICTs in administration, learning and training in the long run.

Notes	

FEEDBACK/APPLICATION FORM

Dear Customer,

The Technical University of Kenya values your opinion on our services. Kindly take

some time to provide us with feedback and your thoughts about our university.

Please flip back this leaf and find the APPLICATION FORM.

Your aspirations/career prospects:

Do you require further career quidance?

YES

NO

If YES, please get in touch with the Office of the Dean of Students or Student Recruitment and Admissions Office.

How did you learn about us?

Newspapers

Radio

TV

Exhibition

Our staff member

Friend

Other...

Our Vision

To be a top rated University of technology

Our Mission

To provide technological education and training and to contribute towards the advancement of society through research and innovation

Our Motto

Education and training for the real world

Mandate

To train high and middle level personnel for both public and private sectors.

Other comments:

Please tear off along the perforation and drop it off at the Admissions' Office, at The Technical University of Kenya Main Campus or mail to us on the address provided at the back

Technical University of Kenya Main Campus or mail to us on the address provided at the bac cover of this booklet. Alternatively, you can contact us via e-mail on the address and web page provided at the back



APPLICATION PROCEDURE

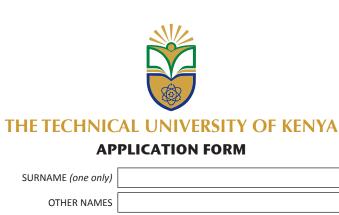
Please read the application procedure below for further guidance:

- ADVERTISEMENT IN THE PRESS: We shall advertise Programmes in the local dailies in March (for May intake), in May (for September intake), and in October (for January intake).
- 2. APPLICATION: Prospective students shall apply for the courses of their choice by completing the application coupon. The coupon is available alongside, at the Admissions Office in the Main Campus, or on our website (http://www.tukenya.ac.ke). The completed coupon should be accompanied by copies of ACADEMIC CERTIFICATES, ID CARD and a bank deposit slip of NON-REFUNDABLE APPLICATION FEE of Kshs 2, 000/= and should be addressed to the SENIOR ASSISTANT REGISTRAR STUDENT RECRUITMENT AND ADMISSIONS.
- 3. **SELECTION:** The Faculty Academic Board will select the applicants who meet the stipulated entry requirements. The successful applicants will be notified through the addresses they shall have provided (Postal and E-mail). The unsuccessful applicants will not be contacted.
- REGISTRATION: The successful applicants will be required to formally register for the programmes for which they have been called, upon receipt of the calling letter. This is upon payment of the statutory fees and the tuition fees. The deadline for registration will be indicated.
- VERIFICATION: The successful students shall be required to verify all their details (including Admission Numbers and order of names) into our system, before proceeding to class.

STATUTORY FEES*: These fees apply to all programmes, and are as indicated above.

All payments be made to Cooperative Bank A/C No. 01129006234900 or Equity Bank A/C No. 0540290597366.

* Statutory fees may be revised from time to time.



SURNAME (one only)	
OTHER NAMES	
COURSE APPLIED FOR	
COURSE CODE	
TITLE (Tick Box	BIRTH DATE (D/M/Y)
Mr. Miss Mrs	. Ms.
ID NO.	
COUNTY	
DISTRICT	
MODULE (tick one)	REGULAR EVENING
ULL POSTAL ADDRESS	
C/O	
P. O. BOX	
TOWN	
TEL.	
E-MAIL ADDRESS	
EMPLOYED (tick one	e) YES NO
TU-K USE	

CEducation and training for the real world?







