

TUNNEWS

The Official Newsletter for the Technical University of Kenya • JANUARY 2013



Finally the First Technical University!

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**INSTITUTIONAL
PROFILE**

PLUS:

- Top Academics in the University
- APPRAISING ACADEMIC PROGRAMMES TO EMBRACE VISION 2030
- Academic Staff to attend Industrial Attachment

CHARTER EXCLUSIVE

The first technical university in Kenya



PROF. DR.-ING. FRANCIS ADUOL – PROFESSOR OF GEOSPATIAL ENGINEERING

I have the pleasure to welcome you to the award of the Technical University Charter. Since the elevation of this institution to university college status, a number of landmark events have been witnessed in the growth path. The transition period presented both opportunities and challenges. The College leadership put in place measures to mitigate the challenges while taking full advantage of the opportunities to realise the dream of becoming a fully fledged university of technology. I am therefore happy to inform the students, parents and the general public that the necessary environment now exists for the first technical university in Kenya. We are happy that our efforts at completing the transition process are successful and we are now mature and ready for the anticipated elevation to the new status.

During the transition period, the College realised many milestones. First, we have been able to attract amongst our staff complement, some of the most prolific academics drawn from world renowned universities. Today, the College boasts twenty one professors and fifty one PhD holders as teaching staff. We have also in place senior management staff with extensive experience in university administration and research gained from some of the best universities in the world. In this front, the College was not only seeking to meet the Commission for Higher Education guidelines, but

also creating a strong ground for sustainable take-off

To improve the capacity of our existing facilities to provide the necessary infrastructure for university education, the College leadership embarked on an intensive process of upgrading. The refurbishment works that commenced in the year 2009, has continued in earnest and today the College has been able to provide the necessary space requirements for learning and working. The space demand has been growing at a faster rate owing to the high rate of student admission and staff recruitment. The construction of the seven storey and twelve storey complexes for both the School of Architecture and the Built Environment and School of Engineering Science and Technology respectively is almost complete. The buildings are expected to be ready for occupation in early next year and this will ease congestion and provide new and improved teaching and learning environment for staff and students.

KPUC has positioned itself as leader in the provision of technical education and training for the attainment of Vision 2030 and this regard, have been steadfast in pursuing our vision of being a top rated university of technology. Recently and through the co-operation between our Government and the Government of the People's Republic of China, the College received state of the art laboratory and workshop equipment. The equipment is for the training of students in mechani-

cal and mechatronics as well as electrical and electronic engineering. Once commissioned, it is capable of handling four hundred students in a session. The equipment also has a large capacity for industrial design and production through prototyping. This will enhance our strength and tradition in education and training for the real world.

To improve on our capacity to be sensitive to the needs of the industry, the institution signed memoranda of co-operations with the industry players among them, Kenya Manufacturers Association. This cooperation allows our staff to spend some time in the industry while on leave to refresh their industrial skills and be abreast with the latest trends in the respective industries. Our students also have ready opportunity for industrial experience through our module of Industry Based Learning. More importantly, the College professors are providing leadership for the formal recognition of engineering technologists and technicians in the country. This is part of our commitment in the delivery of Kenya Vision 2030 which requires sufficient personnel to produce globally competitive goods and design systems of high quality. The Institution of Engineering Technologists and Technicians of Kenya has been registered while the Bill to establish the Engineering Technologists and Techni-

cians is awaiting enactment.

The Commission for Higher Education has completed its evaluation of the institution's readiness for university status. Officials from the Commission visited the College to inspect our preparedness for the full university status. The College Council and Management have therefore, put in place structures and instruments necessary for the new status. On behalf of the College Management, staff and student, I wish to extend our appreciation to the College Council and the Government through the Ministry of Higher Education, Science and Technology for guiding and supporting the institution through this transition period!

PROFILE OF PROF ADUOL

Prof. Francis Aduol was appointed the first Principal of the Kenya Polytechnic University College in October 2008. Prof. Aduol holds a B.Sc. Engineering degree in Surveying and Photogrammetry and an M.Sc. degree in Surveying both from the University of Nairobi, and Dr.-Ing. in Geodesy from the University of Stuttgart in Germany.

He 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.

DREAM COME TRUE: THE FIRST TECHNICAL UNIVERSITY IN KENYA

The Charter brings hope as the Country gears towards industrialisation

Today Marks a significant day of the Technical University of Kenya (TUK), a university whose history dates back to 1960. This is when the colonial Government in Kenya established an institution in Nairobi to offer technical training at the Certificate and Diploma levels and to prepare candidates for entry into the job market as artisans and technicians.

The process of upgrading the Polytechnic was initiated by the Ministry of Education immediately after the launch of the Sessional Paper in 2005. The Ministry formed a committee to oversee this process. After much consideration, it was decided that the best way forward in establishment of the institution as a degree awarding institution was through the establishment of the institution as a university college. It was further decided that as a university college, the institution will be a constituent college of the University of Nairobi. On 23rd August 2007, the President of the Republic of Kenya signed the Kenya Polytechnic University College Legal Order thereby formally establishing the Kenya Polytechnic University College as a constituent college of the University of Nairobi. Although the college was established with effect from August 2007, it did not begin to function as a university college until November 2008 when the Principal for the University College had been appointed.

It has come of age functioning both as a polytechnic and a university college in an integrated manner, by offering Degrees, Diplomas and Certificate courses. Today, His Excellency Hon. Mwai Kibaki, President of the Republic of Kenya awards a charter to the Kenya Polytechnic University College (KPUC). With the award of the Charter, KPUC will hence be known as the Technical University of Kenya (TUK). This

the autonomy to operate as an independent university. This means there will be organizational reorganization and infrastructural expansion of the institution to cater for the new status and functions. TUK will train, examine and confer relevant certification to her students and carry out research among other functions.

The strategic objectives of TUK as a university are teaching and learning, research and innovation, and community service and extension. Beyond this, TUK is expected to offer education and training of that shall be focused on application of technological knowledge and skills. The university shall also engage in research with a keen sense of applicability of such research in the solution of immediate societal problems as well as future, anticipated problems. Innovativeness is a major guiding factor in the research at TUK and is also expected to influence everything the institution is involved in, including teaching and learning.

TEACHING, LEARNING & STUDENTS

Teaching and Curricula development is handled by the Division of Teaching Learning and Students (TLS), which ensures relevance of curricula to the needs of the world of work and assures quality in its delivery.

All departments have been provided with modern computer laboratories where students can access internet and carry out research.

TLS, is to ensure that the institution is focused on developing and maintaining the critical scientific and technical capabilities that are needed to characterize the expected fast changing technological Kenyan environment in line with the expectations of the country's Vision 2030.

ing and Students oversees the effective and efficient coordination of Teaching, Learning and Student Affairs within the University College

Already, TUK has attracted some of the most prolific academics drawn from world renowned universities. Today, the College boasts of twenty one professors and fifty two PhD holders as teaching staff. We have also in place senior management staff with extensive experience in university administration and research gained from some of the best universities in the world. In this front, the College was not only seeking to meet the Commission for Higher Education guidelines, but also creating a strong ground for sustainable take-off.

Student population

The current student population is more than 12,122. Out of these, 8,255 are regular students while the rest are part-time students. The regular students account for 58.45% of the total student population.

Out of the current population of 8,251 regular students, 5136 students are pursuing Technical / Science courses. This represents 62.24 %. During the financial year 2012/2013 the institution has undertaken to have an increase of students taking technical/science courses to 75%.

Eighty Diploma holders were admitted into B.Tech Degree programmes. During the financial year 2012/2013 the institution undertakes to have at least two hundred and fifty (250) Diploma holders admitted into B.Tech Programmes.

RESEARCH

Our research agenda has adopted industry-focus and market-driven approaches to ensure that the research outputs are relevant to the industry. We

will strive to have a balanced approach of technology and market orientation. This will be achieved through the creation of collaborative research teams that have a focus on national economic goals. It is with this understanding that our research platform covers product development, start-up financing, case studies, and patent management.

COLLABORATION

The University College emphasizes the need for collaboration on innovation, value addition, mentoring, research and skills based training to better the position of students to not only compete locally but also internationally.

TUK seeks to secure the input of industry practitioners and professionals into the training activities of the University College. This cooperation will enhance provision of solutions to industrial and business problems through jointly supported applied research. It will further ensure that the skills of the graduates meet the changing requirements of the workplace.

INFRASTRUCTURE

To improve the capacity of our existing facilities to provide the necessary infrastructure for university education, the College leadership embarked on an intensive process of upgrading. The refurbishment works that commenced in the year 2009, has continued in earnest and today the College has been able to provide the necessary space requirements for learning and working. The space demand has been growing at a faster rate owing to the high rate of student admission and staff recruitment. The construction of the seven storey and twelve storey complexes for both the School of

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Architecture and the Built Environment and School of Engineering Science and Technology respectively is almost complete. The buildings are expected to be ready for occupation in early next year and this will ease congestion.

As a polytechnical university, TUK aims at providing leadership in technology and innovation in the country. In this effort the institution has its main plank offering courses in the technological subjects such as Engineering, Architecture and Applied Sciences. The combination of education and training in Science and Technology on one hand and that of Humanity and Social Sciences on the other hand is an effective approach that promotes innovative solu-

tions to societal problems.

Given the low level of technological development in Kenya in most of tertiary institutions, the Technical University places more focus on innovation as a way of education and training, which is a value addition to the institution.

In order for the university to effectively compete in the already crowded field, it offers competitive programmes both in terms of service and pricing and competitive staff terms of service. Through competitive programmes of study, the institution expects to attract quality students



Chinese Vice Minister, Ministry of Science and Technology (MOST) and Kenya's Minister for Higher Education Science and Technology, Prof. Magret Kamar recently launched Solid State Lighting Technology Center at TUK. Several dignitaries attended the event among them, the Assistant Minister Dr. Kilemi Mwiria (Third -L) and the University Principal Prof. Francis Aduol.

Top Academics join TUK

DEPUTY PRINCIPALS



PROF. MICHAEL O. KACHIENG'A
RESEARCH, INNOVATION AND ENTERPRISE

Associate Professor – Department of Electrical and Electronic Engineering

Prof. Kachieng'a is a Chartered Electrical Engineer and Biomedical Engineering Scientist.

Prof. Kachieng'a is a professor of Technological Entrepreneurship (Engineering & Finance) and Consulting Technological entrepreneurs and business financing.

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 Cape Town and a Masters (Distinction), (Electrical Engineering), from Moscow Technological University.



PROF. SUKI K. K. MWENDWA
NETWORKS, PARTNERSHIPS AND LINKAGES

Associate Professor – Department of Design and Creative Media

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 10 years experience in teaching and administration. Prof. Mwendwa has been on a number of parastatal boards, providing the perspective of the Creative Arts and Sustainable Design.

She joined the Kenya Polytechnic University College in October, 2010.



PROF. PAUL M. SHIUNDU
TEACHING, LEARNING AND STUDENTS

Associate Professor – Department of Chemical Science & Technology

Prof. Paul Shiundu has received various awards and grants for his exemplary work in teaching, and research in his area of specialization. He is a recipient of the Senior Fulbright Scholar Award. He has over 12 years experience in academic and administrative work.

Prof. Shiundu joined the Kenya Polytechnic University College in Jan. 2011, from the University of Nairobi (UoN), where he had served as the Dean School of Physical Sciences

He holds a PhD in Chemistry from the University of British Columbia, Canada, Post graduate Studies in Natural Sciences (Canada), Bachelor of Science 1st Class Honours (U.O.N), Postdoctoral Fellow (U.O.N.U.S.A)

LIBRARY INSTALS NEW LIBRARY

INFORMATION SYSTEM

The College Library has installed a new library information system. Efficiency and versatility of Library services are now a reality. Not only can one search the library catalogue, but users can also do book reservation, book renewal, access to e-Books and journals among other activities online.

As a member of Kenya Library and Information Services Consortium, KPUC received the Electronic Information for Libraries (EIFL) funded institutional repository (D-Space software) in August 2012. The E-repository facilitates access and management of research findings and other internally generated learning resources and publications. The software was installed in August 2012 and ICT and Library staff trained on its use and management.

TECHNICAL UNIVERSITY OF KENYA

INSTITUTIONAL PROFILE



The strategic objectives of Technical University of Kenya (TUK) as a university are teaching and learning, research and innovation, and community service and extension. Beyond this, TUK is expected to offer education and training of that shall be focused on application of technological knowledge and skills. The university shall also engage in research with a keen sense of applicability of such research in the solution of immediate societal problems as well as future, anticipated problems. Innovativeness is a major guiding factor in the research at TUK and is also expected to influence everything the institution is involved in, including teaching and learning.

The Technical University of Kenya currently has 12,115 students of which 5,227 are degree students while 6,888 are Diploma and certificate students. The students study a wide range of specialized, professional and technical courses. The university has a modern library and well equipped laboratories. The university has achieved this by upgrading most of its learning facilities through refurbishment and installation of new and up-to-date laboratory equipment and workshop machines. The library has also installed the latest software for electronic and on-line access of its services by the users. The strength of the graduates of TUK lies in their ability to practically apply the technical skills acquired through their training to address local and global chal-

through innovation. The versatility of the graduates is attested by the continued demand and ready acceptance by the industry while many of them also end up in self employment and eventually creating opportunities for other job seekers.

The Technical University of Kenya grew out of the Kenya Polytechnic. In 2007 the Government upgraded the Kenya Polytechnic to a degree awarding institution. The institution was then reconstituted as the Kenya Polytechnic University College (KPUC) and a 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 in the technical and vocational fields. As a constituent college of the University of Nairobi, the degrees awarded by the institution would be conferred by the University of Nairobi while the diplomas and certificates would continue to be awarded by the institution.

The Kenya Polytechnic was for many years the leading institution for education and training at the tertiary level in Kenya. Over the years the institution was known throughout Kenya and the East and Central African region for her high quality graduates in the technical and vocational fields. The students at the institution were typically enrolled in programmes that pre-

tificate level qualifications. At its founding in 1961, the institution was designed to provide in the main, education and training in the technical and vocational fields to those who were already in employment. Consequently the bulk of the studentship was part-time, and took their lectures and instruction in the evenings. Typically the training was very strong in hands-on exposure and thus prepared highly practically oriented graduates.

One of the principal objectives in the upgrading of the Polytechnic was to provide opportunity for the students who had qualified with the Diploma in Technology from the National Polytechnics as well as from the Technical Training Institutes to advance their studies to degree levels. The Kenya Polytechnic University College was thus expected to design its degree programmes to allow for candidates with prior technical and vocational qualifications to join her programmes with credit transfers.

The first batch of students on the degree programme was admitted to the college by the Joint Admissions Board (JAB) from the Kenya Certificate of Secondary Education (KCSE) 2005 cohort. This group comprised 128 students who were admitted to study for the Bachelor of Engineering degree in Electrical and Electronic Engineering and started their studies in January 2009. Parallel with this the college also admitted some 22 students who had qualified with the Diploma in

ya Polytechnic to study for the Bachelor of Technology degree in Electrical and Electronic Engineering Technology (BTech). These students were given credit for the first two years of study on the BTech programme and were thus admitted into the programme in the third year of the study. This first group of BTech students completed their studies and graduated with award of degrees in 2010.

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MANAGEMENT OF ACADEMIC PROGRAMMES

The Academic Programmes

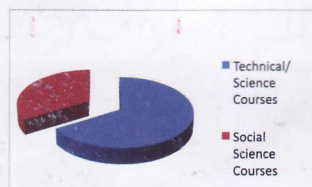
THE Technical University focuses on generation, application and transfer of technology through research at all levels of training. What the Massachusetts Institute of Technology (MIT) adopted in 1861 as its model, is the motivation and forms the basis of the Technical University's drive to be the hub of technologists' training within the Eastern African region. The essence of Technical University of Kenya is to offer an intellectual platform for industrialization of the country and the region.

By the year 2015, the institution projects to have a total of 18,000 students drawn internationally. Student population is expected to grow steadily to 21,625 by May 2016.

The Technical University has been known for its focus and strength in Science and Technology programmes. There are 45 degree courses currently running. Out of these, 41 are Technical and Science courses. This represents 91.1% of courses. The University runs 78 diploma courses out of which 52 are Technical and Science based representing 66.6%.

Bachelor of Philosophy

This programme is designed to complement the practical skills of holders of Higher Diploma qualifications. It aims at bridging the gap between the Higher Diploma and the Degree level training so as to



enable graduates of this program

to take higher levels of professional responsibilities and to further their education to Masters and PhD levels. The Bachelor of Philosophy also hopes to produce a skilled Technologist

Flagship courses

The university has been offering Bachelor's degree programmes for KCSE candidates and graduates of Diploma in Technology and Diploma from Technical Education Programmes and Bachelor of Philosophy for holders of Higher Diploma and other TVET programmes.

Faculty of Engineering and the Built Environment is currently training students at masters and PhD levels.

We provide leadership in technology and innovation in the country. In this effort we offer courses in technological subjects such as Engineering, Architecture and Applied Sciences. The combination of education and training in Science and Technology on one hand and that of Humanity and Social Sciences on the other hand is an effective approach that promotes innovative solutions to societal problems.

Academic Units

The university comprises ten Schools organised under three Faculties, serviced by a well equipped modern Library. The Faculties are well staffed and boast of cutting edge laboratory equipment for top quality training and research in all areas of development ranging from human resource, infrastructure, policy to technology. In addition, there are two established Centres that provide support services to the College are: **Centre for Entrepreneurship Innovation and Technology Transfer**, which also offers training, and the **Information and Communication Technology Centre**.

DEGREE PROGRAMMES

FACULTY OF APPLIED SCIENCES AND TECHNOLOGY

SCHOOL OF HEALTH SCIENCES AND TECHNOLOGY

- 1 Bachelor of Technology (Nutrition and Dietetics)
- 2 Bachelor of Technology (Medical Laboratory Technology)
- 3 Bachelor of Philosophy in Technology (Medical Laboratory Technology)

SCHOOL OF MATHEMATICS AND STATISTICS

- 1 Bachelor of Science (Mathematics)
- 2 Bachelor of Technology (Applied Statistics)

SCHOOL OF PURE AND APPLIED SCIENCE

- 1 Bachelor of Technology (Science Laboratory Technology)
- 2 Bachelor of Technology (Biotechnology)
- 3 Bachelor of Technology (Technical and Applied Physics)
- 4 Bachelor of Technology (Industrial and Applied Chemistry)
- 5 Bachelor of Technology (Applied Biology)
- 6 Bachelor of Technology (Environmental Resource Management)
- 7 Bachelor of Science (Biochemistry)
- 8 Bachelor of Philosophy in Technology (Biotechnology)
- 9 Bachelor of Philosophy in Technology (Analytical Chemistry)
- 10 Bachelor of Philosophy in Technology (Technical Physics)

FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT

SCHOOL OF ARCHITECTURE AND THE BUILT ENVIRONMENT

- 1 Bachelor of Architectural Studies/Bachelor of Architecture
- 2 Bachelor of Science (Quantity Surveying)
- 3 Bachelor of Science (Land Administration)
- 4 Bachelor of Technology (Building Construction)
- 5 Bachelor of Science (Urban Design and Development)
- 6 Bachelor of Technology (Real Estate and Property Management)
- 7 Bachelor of the Built Environment in Construction Management
- 8 Bachelor of the Built Environment in Urban and Regional Planning
- 9 Bachelor of Philosophy in Technology (Construction Management)
- 10 Bachelor of Philosophy in Technology (Quantity Surveying)

SCHOOL OF INFORMATION AND COMMUNICATION TECHNOLOGIES

- 1 Bachelor of Technology (Computer Technology)
- 2 Bachelor of Technology (Information Technology)

SCHOOL OF ENGINEERING SCIENCE AND TECHNOLOGY

- 1 Bachelor of Engineering (Electrical and Electronic Engineering)
- 2 Bachelor of Engineering (Civil Engineering)
- 3 Bachelor of Engineering (Geospatial Engineering)
- 4 Bachelor of Engineering (Mechanical Engineering)
- 5 Bachelor of Engineering (Aeronautical Engineering)
- 6 Bachelor of Technology (Electrical and Electronic Engineering Technology)
- 7 Bachelor of Technology (Mechanical Engineering Technology)
- 8 Bachelor of Technology (Civil Engineering Technology)
- 9 Bachelor of Technology (Geospatial Engineering Technology)
- 10 Bachelor of Technology (Geoinformation Technology)
- 11 Bachelor of Engineering (Chemical Engineering)
- 12 Bachelor of Philosophy in Technology (Mechanical Engineering)
- 13 Bachelor of Philosophy in Technology (Electrical Engineering Technology)
- 14 Bachelor of Philosophy in Technology (Civil Engineering)
- 15 Bachelor of Philosophy in Technology (Geoinformatics)

FACULTY OF LIBERAL AND PROFESSIONAL STUDIES

SCHOOL OF BUSINESS AND MANAGEMENT STUDIES

- 1 Bachelor of Commerce (B.COM)
- 2 Bachelor of Technology (Business Information Technology)
- 3 Bachelor of Economics
- 4 Bachelor of Science (Accountancy)
- 5 Bachelor of Technology (Office Administration and Technology)

SCHOOL OF CREATIVE ARTS AND TECHNOLOGIES

- 1 Bachelor of Technology (Design)
- 2 Bachelor of Technology (Journalism and Mass Communication)
- 3 Bachelor of Music
- 4 Bachelor of Philosophy (Printing Technology)

SCHOOL OF HOSPITALITY AND TOURISM MANAGEMENT

- 1 Bachelor of Technology (Tourism Management)
- 2 Bachelor of Technology (Hotel and Restaurant Management)
- 3 Bachelor of Technology (Institutional Catering and Accommodation)
- 4 Bachelor of Science (Event and Convention Management)

SCHOOL OF SOCIAL AND TECHNOLOGY STUDIES

- 1 Bachelor of Technology (Information Science)
- 2 Bachelor of Arts (International Relations and Diplomacy)



Degree: 57 degree courses on offer. 44 are Technical/Science courses, representing 77.2% of courses at TU-K

Diploma: 78 diploma courses running. 52 are Technical/Science courses, representing 66.6%

FACULTY OF APPLIED SCIENCES AND TECHNOLOGY

Our 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 programmes and 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. Thus the teaching of science is simplified through activity based learning, experimentation and exploration to enhance use of knowledge in technology development. We have invested in state-of-the art laboratories to facilitate achievement of our broad goal; to foster tie between science and other disciplines and prepare the minds of scholars to fuse different fields to create new knowledge and incubate innovation.



PROF. MICHAEL L. MUIA, EXECUTIVE DEAN – FACULTY OF APPLIED SCIENCES AND TECHNOLOGY

Associate Professor – Department of Technical and Applied Physics

Prof. Michael Muia is an expert in X-ray Fluorescence Spectroscopy and Nuclear analytical techniques. He has published widely in these fields and enjoys teaching electronics and reading Science fiction.

Prof. Muia started his career at the Center for Nuclear Science Techniques, University of Nairobi in 1983 as Graduate Assistant then tutorial fellow in 1984 and lecturer in 1991. He holds a PhD in Applied Nuclear Physics from University of Antwerp (UIA) Belgium, MSc. and BSc. from the University of Nairobi.



SCHOOL OF HEALTH SCIENCES AND TECHNOLOGY

School of Health Sciences and Technology programmes cover a range of health sector service delivery training programmes. The School currently offers programmes using multidisciplinary approach aimed at producing graduates equipped to provide health services in the respective areas of training. The programs prepare students for the respective professional certification examinations required for licensure.

SHST has the following departments

Department of Biomedical Laboratory Sciences and Technology • Department of Community and Public Health • Department of Health and Hospital Services Management • Department of Nutrition and Dietetics • Department of Pharmaceutical Sciences and Technology



PROF. FIONA N. MBAI, HEAD OF SCHOOL

Associate Professor – Department of Biomedical Laboratory Sciences and Technology

SCHOOL OF MATHEMATICS AND STATISTICS

Mathematics is an academic discipline and a body of knowledge that involves the study of concepts such as quantity, structure, space and change. It is an essential tool in many fields including natural science, engineering, medicine and social sciences. This School offers programmes in mathematics and statistics, and trains students in these fields with a view to applying the knowledge gained in a practicable way.

The School comprises four departments:

Department of Business and Financial Mathematics • Department of Engineering and Technical Mathematics • Department of Pure and Applied Mathematics • Department of Statistics and Computational Mathematics



PROF. FRANCIS GATHERI, HEAD OF SCHOOL

Associate Professor – Department of Pure and Applied Mathematics

FACULTY OF APPLIED SCIENCE AND TECHNOLOGY

SCHOOL OF PURE AND APPLIED SCIENCES

The School of Pure and Applied Sciences offers programmes at Certificate, Diploma and Degree. These programmes are tailor-made to produce hands-on graduates that not only seek employment but also create them. All programmes have been developed with the input of stakeholders and Industrial attachment is incorporated to expose learners to work environment.

It is made up of six Departments

Department of Biochemistry and Biotechnology • Department of Biological Science and Technology • Department of Chemical Science and Technology • Department of Earth, Environmental Science and Technology • Department of Food Science and Technology • Department of Technical and Applied Physics.



PROF. PAUL BAKI, HEAD OF SCHOOL

Associate Professor - Department of Technical and Applied Physics

FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT



PROF. THOMAS J. O. AFULLO, EXECUTIVE DEAN- FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT

Professor of Telecommunications Engineering

Professor Thomas Afullo holds Bsc. (Eng) from the University of Nairobi, MSc. (Electrical Engineering), from West Virginia University, and Ph.D. in Telecommunications from Vrije Universiteit Brussel, in Belgium.

He has supervised 20 Masters and three Ph.D. students. Prof. Afullo has authored/co-authored several peer-reviewed journal papers and presented several conference papers. He has authored a class text book entitled, "Laboratory Manual in Digital Electronics (Nairobi University Press, 2002).

He is a registered Engineer and also a Senior Member of South African Institute of Electrical Engineers. He is currently supervising four (4) Ph.D and five M.Sc. students at the University of KwaZulu-Natal, in Durban. He also supervises three Masters Students at the National University of Rwanda in Butare, and one Ph.D. student at TUK.

The Faculty of Engineering and the Built Environment (FEBE) prides itself in the tradition of producing technologists, technicians and artisans for the engineering and related work. The Faculty is the largest single destination for training at tertiary level in engineering and technology in the country. We offer training at Certificate, Diploma, and Degree levels. Our partnership with the Kenya Association of Manufacturers reassures the industrial partners that FEBE will continue its original mandate of training graduates for the world of work. This, therefore, places all our 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 recently received state-of-the-art equipment. This equipment will convert the workshops and some training laboratories into centres of excellence in the Eastern Africa Region.

SCHOOL OF ARCHITECTURE AND THE BUILT ENVIRONMENT



PROF. ALFRED OMENYA, HEAD OF SCHOOL

Associate Professor - Department of Architecture and Environmental

The School of Architecture and the Built Environment was established in December 2008 to offer cutting edge professional and academic training in line with the College's motto. The School's mission is, "To be a centre of excellence in learning, creativity and enterprise, promoting economic, social and cultural well being in the built environment".

Department of Architecture and Built Environment • Department of Building Science and Technology • Department of Construction Economics and Management • Department of Land and Infrastructure • Department of Real Estate and Property • Department of Urban

THE DIRECTORS



PROF. GEORGE M. THUMBI – DIRECTOR, INTERNATIONAL PROGRAMMES AND LINKS

Associate Professor – Department of Civil and Environmental Engineering



PROF. WILSON O. OGOLA – DIRECTOR, INDUSTRY AND PROFESSIONAL PARTNERSHIPS

Associate Professor – Department of Mechanical and Mechatronics Engineering



PROF. PETER M. MATU – DIRECTOR, COMMON UNIVERSITY UNDERGRADUATE COURSES

Associate Professor – Department of Language and Communication Studies



PROF. JOSEPH O. LALAH – DIRECTOR OF RESEARCH AND POSTGRADUATE PROGRAMMES

Associate Professor – Department of Chemical Science and Technology



PROF. DORCAS YOLE – DIRECTOR, CAMPUS OUTREACH PROGRAMMES

Associate Professor – Department of Biological Science and Technology

FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT

SCHOOL OF ENGINEERING SCIENCE AND TECHNOLOGY



PROF. MAINA MARINGA, HEAD OF SCHOOL

Associate Professor – Department of Mechanical and Mechatronics Engineering

The School offers an integrated system of education with Certificate, Diploma and Degree certification. This allows students to enter the School at the desired level, subject to qualification. The proximity of students at these three levels reflects

the situation in the world of work thus helping create associations and relationships with the students even after graduation.

Department of Aeronautical and Aviation Engineering

• *Department of Civil and Environmental Engineering* • *Department of Chemical and Process Engineering* • *Department of Electrical and Electronic Engineering* • *Department of Geospatial Science and Engineering* • *Department of Mechanical and Mechatronic Engineering*

SCHOOL OF INFORMATION AND COMMUNICATION TECHNOLOGIES



PROF. PATRICK J. OGA, HEAD OF SCHOOL

Associate Professor – Department of Geospatial Science and Engineering

The School of Information and Communication Technologies is one of Kenya's premier institutions for Computer Science and Technology Education and Research. Over the years, the school has consistently churned out high calibre technicians and technologists to both private and public sectors of the economy. The School is responsible for teaching, training, carrying

out research in software and hardware technologies, data communications and computer graphics as well as the development of curricula for all the computer related courses in the university college with emphasis on practical based training.

Department of Computer Science and Technology • *Department of Information Systems and*

Technology • *Department of Information Systems and Communication* • *Department of Scientific Computing & Modelling* • *Department of Computer Graphics and Multimedia*

FACULTY OF LIBERAL AND PROFESSIONAL STUDIES



PROF. EMILY A. AKUNO, EXECUTIVE DEAN- FACULTY OF LIBERAL AND PROFESSIONAL STUDIES

Associate Professor – Department of Music and Performing Arts

Prof. Emily Akuno is an accomplished scholar in Music and has published and presented articles in scholarly journals and conferences. She has also supervised several Masters' and PhD theses. She is the current Interim Secretary General of the International Society for Music Education (IME). She holds a PhD (Music), Kingston University, Surrey, UK, MMus (Music), Northwestern State University, Louisiana, USA, BEd (Arts), Kenyatta University.



Faculty of the Liberal and Professional Studies comprises 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 national and international markets.

FACULTY OF LIBERAL AND PROFESSIONAL STUDIES

SCHOOL OF BUSINESS AND MANAGEMENT STUDIES



PROF. ANNE N. AMADI, HEAD OF SCHOOL

Associate Professor – Department of Management Science and Technology

The School of Business and Management Studies has full and part-time programmes. The School has full-time teaching staff that is qualified and

talented in their thematic areas. The School offers business, management, and related courses in both full-time and part-time programmes at the Degree, Diploma, Certificate, and Advanced Certificate levels.

It has five departments

*Department of Accounting and Finance
Department of Business Administration
Department of Economics and Development Studies
Department of Law and Legal Studies
Department of Management Science and Technology*

SCHOOL OF CREATIVE ARTS AND TECHNOLOGIES



PROF. ODOCH J.P. PIDO, HEAD OF SCHOOL

Associate Professor – Department of Design and Creative Media

The School trains and develops programmes in response to the needs of the industry, hence providing a strong and versatile foundation by merging design

and digital media into exciting courses of study. Graduates of this School are intellectually and technically skilful, hence industry compliant. It remains the leading Specialist School of Creative Arts and Technologies in Kenya. The School has five departments:

*Department of Design and Creative Media
Department of Fashion and Textiles
Department of Journalism and Mass Communication
Department of Music and Performing Arts
Department of Printing and Media Technology*

SCHOOL OF HOSPITALITY AND TOURISM MANAGEMENT



PROF. RICHARD O. B. MAKOPONDO – HEAD OF SCHOOL

Associate Professor – Department of Tourism and Travel Management

The School of Hospitality and Tourism Management is one of

the oldest academic units at the university, having been established in 1964 as the Department of Institutional Management. SHTM produces highly competent, technological and application-oriented leaders, practitioners and managers for the hospitality, leisure and tourism industries the School has four distinct academic units namely;

*Department of Hospitality and Tourism Management
Department of Catering and Institutional Management
Department of Event and Convention Management
Department of Tourism and Travel Management*

SCHOOL OF SOCIAL AND TECHNOLOGY STUDIES



PROF. HENRY KEMONI, HEAD OF SCHOOL

Associate Professor – Department of Library and Information Studies

The School of Social and Technology Studies (SSTS) offers a range of interdisciplinary

courses at Degree, Diploma and Certificate levels in Information Studies, International Relations and Diplomacy, Psychology and Counselling, Social Work and Community Development, Disaster Management. The School has five Departments:

*Department of Social and Intercultural Studies
Department of Library and Information Sciences
Department of Science and Technology Studies
Department of Psychology and Counselling
Department of Language and Communication*

ACADEMIC PROGRAMMES MANAGEMENT

The Technical University of Kenya assures staff, students and other stakeholders of consistent implementation of academic policies and proper maintenance of records which is important for the management of academic programmes. These functions are vested in the Department of Academic Programmes Management. The Department is headed by the Academic Registrar who works with a team of Senior Assistant Registrars

managing efforts in different sections of the department. Overall, the department coordinates students' recruitment and admission, scheduling of teaching and monitoring of lessons attendance, processing of examinations and certification and documentation of curricula. In order to achieve these goals, the department provides support services in all the critical areas in academic division.

The academic management is tasked with processing of

examination, maintenance of examination records, processing convocation lists and processing data for printing of secure certificates issued to graduates of the Technical University of Kenya. These tasks are however accomplished through close coordination with Schools and Teaching Departments. Other critical functions of the department are; to Maintain correspondence with prospective students and graduates on academic reports and

certification, liaise with the Heads of Schools in resolving pending issues on students' academic progression, evaluate and determine merit for re-admission and inter-university transfer, participate in the compilation of academic documents including the prospectus and academic calendar.

SENIOR LECTURERS

Department of Architecture and the Built Environment

Dr. Peter A. Makachia, PhD (Architecture), University of Nairobi, 2010, MSc (Architecture), Catholic University of Leuven, 1995, B. Arch (hons), University of Nairobi, 1986.

Department of Construction Economics and Management

Dr. Ahmad Alkizim, PhD (Construction Management), University of Reading, UK, 2008, MSc (International Construction Project Management), Victoria University of Manchester, UK, 1998, BA (Building Economics and Management), University of Nairobi, 1997.

Department of Urban and Regional Planning

Dr. Lawrence Salaon Esho PhD (Engineering - Architecture/Partial planning), Catholic University of Leuven, Belgium, 2008, MSc (Architecture in Human settlement), Catholic University of Leuven, Belgium, 2003, MA (Urban and Regional Planning), University of Nairobi, 1997, BA (Sociology), Kenyatta University, 1995.

Department Aeronautical and Aviation Engineering

Dr. Faustine Ondore, PhD (Mechanical Engineering), Brunel University, Uxbridge, England, United Kingdom, 1999, BSc (Engineering studies), University of Hertfordshire UK, 1995, Diploma (Aerospace & Air Transport Engineering), Southall College of Advanced Technology UK, 1975.

Department of Chemical and Process Engineering

Dr. Benson B. Gathitu, PhD (Chemical Engineering), University of Mississippi, 2008, MSc (Chemical Engineering), University of Mississippi, 2006, B.Sc. (Chemical Engineering), University of Mississippi, 2003.

Department of Civil and Environmental Engineering

Dr. George Okwili, PhD, University of Wisconsin - Milwaukee USA, 2010, MSc. (Environmental Engineering), University of Wisconsin - Milwaukee USA, 2006, BSc. (Environmental Science), Magna Cum Laude University of Wisconsin, Green Bay USA, 2003, BSc. (Civil Engineering), University of Wisconsin - Milwaukee USA, 2003.

Department of Biomedical Laboratory Sciences and Technology

Dr. Paul O. Mireji, PhD, (Biochemistry), Kenyatta University, 2006, MSc. (Tropical Entomology), University of Zimbabwe, Harare Zimbabwe, 2000, BSc. (Biochemistry), Egerton University, Njoro, 1996.

Department of Pharmaceutical Sciences and Technology

Dr. Alfred Orina, Post Doctorate (Neuroscience), Case Western Reserve University US, 2009, PhD (Pharmaceutical Science), Idaho State University US, 2007, MSc (Biochemistry & Molecular Biology), Egerton University, 2000, BSc (Chemistry/Biochemistry), Egerton University, 1996.

Department of Statistics and Computational Mathematics

Dr. Thomas T.O Mboya, PhD (Philosophy CFD), University of Leeds, United Kingdom, 2008, MSc (Mathematics), University of Nairobi 1999, BED (Science) 1993, Egerton University.

Department of Earth and Environmental Sciences

Dr. Mohammed Abdullahi Hassan, PhD. (Agricultural Engineering), Tokyo University of Agricultural & Technology, Japan, 2003, MSc. (Environmental Engineering), Utsunomiya University, Japan, 2000, BSc. (Agricultural Engineering), University of Nairobi (UoN) 1990.

Department of Science and Technology Studies

Dr. Patrick M. Dikiri, PhD (Philosophy, Interpretation and Culture), Binghamton University, 2005, MA (Philosophy), University of Nairobi 1994, BA (Political Science & Philosophy), University of Nairobi, 1989.

Department of Language and Communication

Dr. Omondi Oketch PhD (Linguistics), University of the Western Cape Town, South Africa, 2006, Masters (Linguistics), Maseno University, 2000, Bachelor of Education (English/Literature), Moi University, 1994

Department of Accounting & Finance

Dr. George O. Wakah PhD (Business Administration), Nelson Mandela Metropolitan University South Africa, 2011, MBA (Finance), University of Nairobi (UoN), 1999, Bachelor of Education (Accounting & Economics), University of Nairobi, 1999

Department of Design & Creative Media

Dr. Donna Pido PhD (Applied Anthropology), Columbia University New York, 1987, M.Phil. (Education), Columbia University, 1987, B.A (Anthropology), Indiana University, Bloomington, 1966

Department of Chemical Sciences and Technology

Dr. Austin Aluoch, PhD (Analytical Chemistry), State University of New York, USA, 2007, MSc University of Nairobi, 2000, BSc University of Nairobi, 1996.

Department of Geospatial Science and Engineering

Dr. Samson Ayugi, PhD (Geographic Information Systems), University College London, 2008, MSc (Geographical Information Systems), International Institute for Aerospace Surveys and Earth Sciences, The Netherlands, 1992, Post graduate Diploma (Production Photogrammetry), International Institute for Aerospace Surveys and Earth Sciences, The Netherlands, 1991, BSc (Surveying and Photogrammetry), University of Nairobi, 1983.

Department of Mathematics and Statistics

Dr. Bernard Kivunge, PhD (Mathematics), Iowa State University, 2004, MSc (Mathematics) Kenyatta University, 1997, B.ED Science (Mathematics) Kenyatta University, 1995.

LECTURERS

Department of Science & Technology Studies

Dr. Arun Datta PhD (Philosophy), University of Nairobi (UoN), 2011, MA (Philosophy), University of Nairobi (UoN), 2008, MSc (Mathematics), HP University, India, 1972, BSc (Sciences), (Punjab University, India), 1970.

Department of Biological Sciences and Technology

Dr. Vitalis Wekesa Wafula, PhD (Integrate pathology), Universidade de Sao Paulo, Brazil, 2008, MSc (Microbiology), Jomo Kenyatta University of Agriculture and Technology (JKUAT), 2004, BSc (Biological Sciences), JKUAT, 1997.

Department Design and Creative Media

Dr. Havi Murungi, PhD (Visual Communication), De Montfort University, Leicester, UK, MA (Graphic and Information Design), De Montfort University, Leicester, 1996, BA (Design), university of Nairobi, 1987

Department of Biomedical Science and Technology

Dr. Mutinda K. Kyuma, PhD (Biomedical Sciences), Katholieke University of Leuven, Belgium, 2009, MSc (Medical Sciences), Katholieke University of Leuven, Belgium, 2004, BSc (Biochemistry), UoN, 1998.

Department of Biochemistry and Biotechnology

Dr. Elijah Kipkorir Leimen, PhD (Biotechnology), University of Tsukuba, Japan, 2010, MSc (Botany), JKUAT, 2004, BEd (Science) (Kenyatta University), 1997.

Department of Fashion and Textile

Dr. Gabriel J.O Musungu, PhD (Musicology), University of South Africa, 2010, MA (Music Composition) (Kenyatta University), 1999, BEd (Arts) (Kenyatta University, 1994.

Department of Music and Performing Arts

Dr. Gabriel J.O Musungu, PhD (Musicology), University of South Africa, 2010, MA (Music Composition) (Kenyatta University), 1999, BEd (Arts) (Kenyatta University, 1994.

Dr. Philip Wakaba, PhD (Music), Ball State University US, 2009, MA (Music), Ball State University 2006, BEd (Arts), Kenyatta University, 2002

Dr. Susan S. Imbahale, PhD (Production Ecology and Resource Conservation/ Medical Entomology), Wageningen University, The Netherlands, 2010, MSc, (Biology of Conservation), University of Nairobi, 2004, BSc (Zoology and Chemistry), University of Nairobi, 2002.

Department of Biochemistry and Biotechnology

Dr. Betty N. Mbatia PhD (Biotechnology), Lund University, Sweden 2011, MSc (Biochemistry), University of Nairobi, 2005 BSc (Biochemistry and Chemistry), University of Nairobi, 2002

Department of Food Science and Technology

Dr. Patrício Njeru, PhD (Food Science),

Masa Rudine Institute MSc (Food Science), Egerton University Njoro, 2004 BSc (Food Science and Technology), Egerton University Njoro.

Dr. Mercy Mwaniki, PhD (Agricultural Sciences), Chiba, (Japan), (Food Technology), Certificate (Food Science/ Technology)

Department of Mechanical and Mechatronic Engineering

Dr. Erick O. Ogur, PhD (Engineering), Warwick University (UK), 2007, MSc (Manufacturing System Engineering), Warwick University, 2002, Higher Diploma (Mechanical Engineering), Kenya Polytechnic, 1996

Department of Earth, Environmental Science & Technology

PhD (Entrepreneurship), Jomo Kenyatta University of Agriculture and Technology (JKUAT), 2010, Masters (Entrepreneurship), JKUAT, 2006, BEd. (Science), University of Nairobi, 1979.

Department of Community and Public Health

Dr. Grace K. Nyambati - Assistant Dean - School of Health Sciences & Technology (PhD) (Parasitology), Jomo Kenyatta University of Agriculture and Technology (JKUAT), 2011, MSc (Parasitology/ Entomology), University of Nairobi (UoN), 1995, BEd. (Science), UoN, 1984

Academic staff will be attending Industrial Attachment

To improve on our capacity to be sensitive to the needs of the industry, the institution signed a memorandum of cooperation with the Kenya Association Manufacturers (KAM). This cooperation allows our staff to spend some time in the industry while on leave to refresh their industrial skills so as to stay abreast with the latest trends and best practices in their respective industries.

The Association will develop and enhance capacity as well as entrepreneurial skills in Small and Medium Enterprise organizations (SMEs). The staff and students will therefore receive hands-on training at the facilities of KAM and its affiliates and be allowed for academic group visits. The University recognises that lecturers' industrial skills are necessary in the discharge of their duties. They therefore have to be well exposed to the new emerging industry trends. This contributes to the effectiveness of the Industry Based Learning and regular appraisal of the curriculum.

“EDUCATION AND TRAINING FOR THE REAL WORLD”...

THE KENYA POLYTECHNIC IN 1961



.....AND THIS IS WHERE WE ARE HEADED TO

GRANT OF THE UNIVERSITY CHARTER

Tuesday, 15th January 2013 from 9.00 am at the Graduation Square.