

## HISTORIC VISIT

President William Ruto Tours TU-K and Promises...

### CAPITATION

Government to give TU-K capitation for Diploma students

### LAND FOR EXPANSION

TU-K to get part of Railway land behind S-Block for expansion

### SETTING UP TVET COLLEGE

Government to support construction of a college to train TVET teachers, instructors



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## 2022 Was TU-K's Year of Blessings

As we come to the end of 2022, we look back with pride and gratitude for what the Almighty God has done to The Technical University of Kenya. The Lord has been merciful to us. Our prayers as an institution to get some land for expansion have been answered. Our prayers to build a dedicated TVET College to train instructors and teachers too have been answered!

His Excellency President of the Republic of Kenya, Dr. William Ruto, visited the University on 8<sup>th</sup> December 2022 and gifted the institution an adjacent piece of land currently reserved for the Ministry of Foreign Affairs. The President also announced the Government will support the construction of a TVET College at the University's piece of land at South C. Other than offering diploma programmes, the College will also train TVET teachers and instructors that will eventually work in TVET institutions across the country. The College will greatly improve the quality of training offered in TVET institutions across the country. Currently there's not a single such college training TVET personnel yet the Government has in the recent past established very many TVET institutes across the country. TU-K will be glad to train the teachers as part of ensuring quality of the training offered in the TVET institutes.

President Ruto also announced that TU-K will henceforth start receiving capitation for TVET diploma students joining the institution. Since the University came into being in 2008, the Exchequer has been funding TU-K like any other university and totally ignored providing capitation for diploma students. When the institution was formed, it was directed to continue operating as a polytechnic university. With the requisite capitation, TU-K will comfortably offer the expected standard of training for the students.

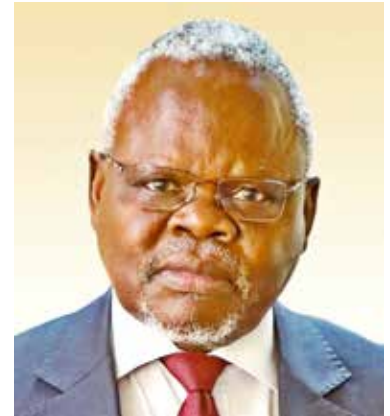
In addition, the President directed that the University be chartered afresh to remove some ambiguities in its Charter, which will enable TU-K to operate and discharge its mandate as contemplated in the Legal Order No.159 of 2007 and Article 19 of the Universities Act 2012 and as amended in 2018.

We are also grateful to His Excellency the President for supporting the construction of the Senate Tower and *i*-Block. The two structures will create more learning and office space in the institution.

I am glad to note that the students have continued to maintain peace and tranquility. Not long ago, the students held very peaceful elections where they elected their leaders. The student leaders have shown great promise and are continuously engaging the Management to address their issues. This is the spirit we always encourage to create a conducive learning environment to enable students complete their studies within expected timelines.

I wish to thank the Embassy of the Republic of Germany and the French Embassy for the strategic partnerships and support they have extended to TU-K. The University has also continued to attract support from local corporates such as Safaricom Limited that this year refurbished and handed over a laboratory at the School of Biological and Life Sciences. To all parents, sponsors and well-wishers, we say thank you so much for your support.

I wish you a happy festive season ahead and Happy New Year 2023.



*Prof. Francis W.O. Aduol*





# TU-K to be Chartered Afresh to Ensure

The Technical University of Kenya will soon be re-chartered to ensure clarity of its mandate as a special technical university. This was announced by President William Ruto when he visited the university on 8th December 2022. While at the University, the President commissioned construction works for two blocks and inaugurated a recently-completed tuition block.

“I’m aware that there is a misalignment between the ministry’s charter and the constitutive legislative instruments that affect the clarity of its mandate. After consultations with the Council Chairman and the Vice-Chancellor, we will re-work and re-charter this University so that we can establish it as a special technical university. TU-K should not just be technical in its name, it should be a technical university by charter,” the President said.

The President’s announcement came about after the University expressed concern that the Legal Order Number 159 of 2007 that created the institution

had not been properly been interpreted, therefore affecting the discharge of its mandate since it was to function both as polytechnic and university. The lack of clarity had led to less capitation from Exchequer that treats TU-K as any other traditional university yet it continues to admit and train diploma students placed by KUCCPS to pursue various technical disciplines.

The President commended TU-K for maintaining its leading role in TVET programmes in the country adding that the university’s visionary leadership will result in transformation of Kenya’s economy in all sectors.

“It’s important that the institution maintains its core identity as a polytechnic university. This means that its mandate to train at the diploma level must be sustained. I’m aware that funding for this component has not been up to the appropriate levels. I have asked the CS for Education to make appropriate arrangements to ensure this University lives up to its founding mandate by

providing funding to it to continue offering diploma programmes,” he said.

The President noted that the commitment to TVET programmes had made the institution attractive to a large number of Kenyans pursuing training in vital fields.

He urged the University to stick to its mandate and support the country’s aspirations of becoming industrialised.

“I Commend you for striving in the face of daunting challenges, to retain this iconic identity. Your struggle has admirable results. You have remained a TVET institution supported by robust science and technology disciplines complemented by social sciences and humanities.”

He commended TU-K for giving them opportunities to pursue degrees after completion of diploma programmes.

“The Young people’s positive response to the institution’s vision is a clear testimony that you are doing the right thing and doing it well. Our presence at this event signals the Government’s readiness to partner with tertiary and TVET institutions to forge a clear path that will ensure Kenya increases the pool of highly skilled technical personnel and assume global leadership in all sectors,” he said.

He assured the gathering about the Government’s commitment in funding a planned TVET College, saying it is important to sustain TU-K’s core mandate. He said the facility will train instructors and teachers who will serve other TVET institutions across the country.

President Ruto noted that TU-K’s model has been successfully replicated in some African countries, which have proceeded to establish more technical



*President William Ruto greets student leader Habiba Abdi*





# Clarity of its Mandate



**CS Machogu receives the President**

universities than Kenya. He noted that Kenya needs more technical personnel to meet its enormous challenges.

“Considering the shortage of critical skills in vocational disciplines such as plumbing, woodwork among others, the Government will support the youth to realise self-employment.” he added.

The Head of State expressed hope that TU-K will play a critical role in the development of the Railway City whose commissioning of initial works he presided over on Wednesday 7<sup>th</sup> December 2022.

Present during the event were Cabinet Secretary for Education, Hon. Ezekiel Machogu, Nairobi Governor, Hon. Johnson Sakaja, Nairobi Regional Commissioner, Mr Kang’ethe Thuku, Commission for University Education CEO, Prof. Mike Kuria, TVETA CEO, Dr. Kipkurui Langat, HELB CEO, Mr Charles Ringera, KUCCPS CEO, Dr. Agnes Wahome among other senior officers from State agencies.



**Governor Sakaja greets Administrative Secretary, Ministry of Education, Mr. Fredrick Ndambuki**



**President Ruto with the CS for Education, Ezekiel Machogu; Ministry of Education Administration Secretary, Mr Fredrick Ndambuki; VC Prof. Francis Aduol; Chairman of the Council, Dr. Idle Farah; Nairobi Governor, Johnson Sakaja and part of the members of TU-K Senior Management.**



# TU-K Gets More Land for Expansion



President William Ruto signs a visitor's book



President Ruto unveils a commemorative plaque for the construction of i-Block and Senate Tower.



President Ruto operates a backhoe machine to break ground for the construction of i-Block

The Head of State, Dr. William Samoei Ruto, asked the Ministry of Foreign Affairs to surrender a piece of land next to TU-K so as to enable the University expand its learning facilities.

The President was speaking during the official ground-breaking for the construction of Senate Tower and i-Block as well as the opening of S-Block ceremony held on 8<sup>th</sup> December 2022.

"After going around and seeing the constrains of space for the development of facilities in the University, I will instruct the Ministry of Foreign Affairs to surrender the parcel of land that is next to TU-K so that it can be utilised for expansion," said the President.

The President also pledged Government support to the University for construction of additional hostels with a capacity to accommodate at least 1,300

students. He further urged the University to work with the Ministry of Housing so that more hostels with a capacity of 5,000 students are also constructed.

The President was accompanied by Education CS Hon. Ezekiel Machogu and Nairobi Governor Hon. Johnson Sakaja. Hon. Machogu assured the President that

**"The economy today is driven by technology and powered by information. Give these young people the skills to compete globally. There are many opportunities to partner with the City County of Nairobi,"**

**-Governor Sakaja.**

his Ministry will ensure that the youth agenda in TVET education is achieved.

"The economy today is driven by technology and powered by information. Give these young people the skills to compete globally. There are also many opportunities to partner with the City County of Nairobi," said Governor Sakaja.

The Governor further said the "bottom-up economy needs the University because it is not looking for those with millions of shillings in the bank but those with millions of ideas in their minds."

The Chairman of the University Council, Dr. Idle Omar Farah, thanked the President for accepting the invitation to visit, tour, and interact with the entire university fraternity.

# Goodies Galore as President William Ruto Comes Calling

**President gifts TU-K land for expansion, promises Government capitation for TVET diploma students and support for the TU-K TVET College**

When President William Ruto arrived at TU-K on the morning of Thursday, 8<sup>th</sup> December 2022, the excitement and expectation was in the air. Students and staff were looking forward to the President's much awaited rare visit.

This was the first time a Head of State was visiting TU-K since 2013 when the late President Mwai Kibaki presided at the award of charter ceremony.

To kick off his tour of the University, President Ruto inaugurated the construction of Senate Tower and i-Block that, upon completion, will increase office and learning space. The two projects will be fully funded by the Government.

When he rose to speak at the meeting largely attended by members of the University fraternity inside a huge tent, the President did not disappoint. He announced that he will instruct the Cabinet Secretary for Foreign Affairs to relinquish the ownership of a piece of land behind S-Block for the University to use for its expansion in order to play its rightful role in the upcoming Nairobi Railway City.

On the issue of Government capitation for Diploma students, the President directed the Ministry of Education to ensure TU-K receives its fair share of



**President Ruto unveils a commemorative plaque to officially open S-Block**

capitation to support the TVET students.

The Head of State announced that the Government will support the construction of a dedicated TU-K TVET College in South C, Nairobi. The planned college will train instructors and lecturers that will be posted to work in TVET institutions across the country.

President Ruto directed that the footbridge on Haile Selassie Avenue be urgently repaired and opened up for public use. The President was responding

to the request by the SATUK chairman, Denis Muchoki who decried the bridge's continued closure that had caused untold suffering to the University fraternity every time they attempt to cross the busy road.

Nairobi County Governor, Johnson Sakaja, assured the university that he had already discussed and agreed with the Director-General of Kenya Urban Roads Authority (KURA) on the matter and work will commence soon.

Earlier on, the President toured the Modern Engineering workshop and witnessed the enormous potential the university has but remains under-utilised. He noted that TU-K was able to produce motor vehicle and factory parts that can greatly contribute to the country's economic takeoff. The President encouraged the University to set up an innovation hub and industrial park to nurture talents of its students and the Kenyan youth in general.

Upon his arrival at TU-K, the President held a closed door meeting with the Chairman of the University Council, Dr. Idle Farah and the Vice-Chancellor, Prof. Francis Aduol in the presence of CS for Education, Hon. Ezekiel Machogu, where they discussed issues affecting the institution and the entire higher education sector in the country.



**President Ruto leaves Aeronautical workshop**



# Students Plead for an Innovation Hub



President admires factory parts manufactured in Engineering Workshop



A student explains to President Ruto how they make moulds

Student Association of the Technical University of Kenya (SATUK) chairperson, Dennis Muchoki, during the visit by President Dr. William Samoei Ruto, made an appeal for an innovation hub.

Mr. Muchoki said, setting up an innovation hub will help young Kenyans actualise their creative and innovative ideas.

“Mr. President, these brilliant comrades before you here have very creative and innovative minds but they lack an environment to put their creativity and innovation to practice,” he said.

“They are humbly requesting you to support them get an innovation hub. This would not only help us develop individual students and their ideas, but also ensure that the innovations open doors for employment, research and transformative development in the country,” he added.

Muchoki appealed to the President to order the completion of the repair works at the foot bridge on Haile Selassie Avenue.

“As you may be aware, the footbridge

**“The footbridge on Haile Selassie Avenue was closed after a lorry knocked it and compromised its safety over two years ago. The bridge has not been repaired and comrades and other users risk their lives while crossing the busy Haile Selassie Avenue”.**

**- Dennis Muchoki**

across Haile Selassie Avenue was closed after a lorry knocked it and compromised its safety over two years ago. The bridge has not been repaired and comrades and other users risk their lives while crossing the busy Haile Selassie Avenue,” he said.

“Kindly, intervene and save the lives of comrades and other Kenyans,” he appealed.

Mr. Muchoki also requested the

President to beef up security in the areas surrounding TU-K to ensure no harm is inflicted on innocent students and the university fraternity at large.

SATUK Chair pointed out that the University was constrained with space, inhibiting growth of facilities to support active student and academic growth.

“We do not have adequate hostels for the comrades and the majority of us live in very constrained environments outside the City. The situation is not particularly conducive for meaningful academic and research endeavours,” he said.

Mr. Muchoki pleaded with the President to secure space around the institution where a suitable Student Centre and adequate hostels can be constructed.



A technician explains to President Ruto the ABC of computerised designs



Mr. Dennis Muchoki





*The VC, Prof. Aduol; Education Administrative Secretary, Mr Fredrick Ndambuki; Education CS Hon. Ezekiel Machogu and Chairman of Council, Dr. Idle Farah confer ahead of the arrival of President William Ruto.*



*President Ruto takes a group photo with University Council members; CS Hon. Ezekiel Machogu; Nairobi County Governor, Hon. Johnson Sakaja and Education Administration Secretary, Mr. Fredrick Ndambuki.*



*President Ruto takes a photo with student leaders. Also on the picture are the Education CS, Hon. Ezekiel Machogu; Nairobi County Governor, Hon. Johnson Sakaja; Council Chairman, Dr. Idle Farah and senior members of management and the VC, Prof. Francis Aduol (far right)*

# We Welcome Reforms in Education – Chair of Council



*Dr. Idle Omar Farah, Chairman of University Council speaks during the Presidential function.*

The Chairman of University Council, Dr. Idle Omar Farah said TU-K was committed to supporting reforms in education sector and working towards solving socio-economic challenges through provision of relevant and practical training.

Dr. Farah said the University had unique mandate that bridges practical and theoretical aspects that are critical in transforming the country.

“TU-K is a unique institution both in its mandate and in its scope. It has a long and rich history in the education sector in Kenya predating to our independence. TU-K forms the nexus between TVET and university education,” he said.

The Chairman congratulated the Head of State for his election as the 5<sup>th</sup> President of Kenya. Dr. Farah also congratulated the appointment of Hon. Ezekiel Machogu as the Cabinet Secretary for Education and Dr. Beatrice Muganda Inyangala as the Principal Secretary for Higher Education and Research.

Dr. Farah at the same time underscored the challenges facing universities noting the Government has already set up mechanisms to address the sticking issues in the sector.

“The University sector is facing a myriad of challenges ranging from funding, infrastructure, staff welfare and above all transitioning to the CBC system in the coming six years, least of all we are still in the post-Covid-19 recovery phase,” said Dr. Farah.

“We had the opportunity as university council chairpersons under the aegis of the Inter-Public Universities Council Consultative Forum (IPUCCF) to present our views, interact and engage with the Presidential Working Party on Education Reforms,” he added.

## Skill-Based Training Critical in Economy – VC

The Vice-Chancellor, Prof. Francis Aduol underscored the critical role TVET institutions play in transforming economies. “Your Excellency, one of the clearest ways to fight poverty in this country will be along the path already taken by many countries before us; and that is through technological advancement,” the VC said.

Prof. Aduol congratulated the President for his election as the 5<sup>th</sup> President of Kenya.

The VC said TU-K plays a pivotal role in technological training and that it is ready to work with other Government agencies and development partners to ensure the country quickly moves forward.

The VC noted that the University has since embarked on plans to establish a dedicated TVET College in South C. “The University has a clear agenda to strengthen its TVET education and to this extent has earmarked the establishment of a dedicated TVET College at its property in South C. Besides offering education at the Diploma level, the college will also offer programmes in technical teacher education with the aim of providing graduate teachers for TVET colleges in the country.”





**President Ruto is received by Governor Johnson Sakaja and Nairobi Regional Commissioner, Mr Kang'ethe Thuku**



**President William Ruto greets DVC-ASA, Prof. Paul Shiundu (right)**



**President greets CUE CEO Prof. Mike Kuria**



**The VC, Prof. Francis Aduol with Regional Commissioner (Nairobi), Mr Kang'ethe Thuku, looking on is DVC-ASA, Prof. Paul Shiundu(left).**



**President greets Acting University Registrar, Dr. Hesbon Nyagowa**



**President Ruto greets the Chairman of University Council, Dr. Idle Farah**



## PRESIDENTIAL VISIT



*President Ruto arrives at TU-K*



*President Ruto receives from the Vice-Chancellor a 3D made by TU-K students*



*CS for Education Hon. Ezekiel Machogu speaks during the event*



*Nairobi City County Governor Johnson Sakaja speaks*



*Prof. Francis Gatheri, Prof. Paul Shiundu confers with a State Protocol officer ahead of the arrival of President Ruto.*



*VC Prof. Aduol chats with a State Protocol officer*



*University Choir perform during the function.*



# Safaricom Hands Over Refurbished Lab

Safaricom Foundation, through Pamoja Project, officially handed over a refurbished N313 Laboratory under the Department of Biochemistry and Biotechnology (DBB) to the University. The event was graced by Safaricom PLC staff including Mr. Abraham Mbatha, Stock Controller, Safaricom I&M Shop, who was the chief guest, Mr. Patrick Sitati Kituyi, the Project Champion as well as Customer Journey Specialist, Channels, Sales & Distribution Department, and Ms. Elizabeth Kinyajui, Nairobi CBD Area Sales Manager and Ms. Lorna Awuor.

TU-K staff in attendance included Prof. Francis K. Gatheri, Executive Dean, Faculty of Applied Sciences and Technology, Prof. Dorcas Yole, the Director, School of Biological and Life Sciences, lecturers in the Department of Biochemistry and Biotechnology: Dr. Peninnah Wairagu, Dr. Peris Amwayi and Dr. Patrick Okanya, Faculty Academic Team Leaders, lab technicians and students.

In his speech, Mr. Mbatha, the chief guest, said that Safaricom Foundation was working closely with various partners to transform the lives of Kenyans from all walks of life by funding sustainable projects that had a direct impact on the lives of communities. In their partnership with He said a well-equipped and



*Faculty of Applied Sciences and Technology Executive Dean, Prof. Francis Gatheri (left), Safaricom PLC Stock Controller (I&M branch), Mr. Abraham Mbatha (centre) and School of Biological Sciences, Director, Prof. Dorcas Yole during the handover ceremony.*

well maintained laboratory was key to any learning institution which aims at achieving optimum results in its research activities.

Prof. Francis K. Gatheri, Executive Dean, Faculty of Applied Sciences and Technology, said that the University was very grateful for the partnership and

encouraged Safaricom Foundation to adopt more laboratories in the University.

On her part, Prof. Yole said that the University management was committed to improving learning facilities saying that it had been very supportive throughout the project.



*Guests from Safaricom PLC with TU-K teaching and administrative staff during the laboratory handover ceremony.*

# Kenyan Wins Peace Award



*Ms. Sabina Ng'ang'a displays her award.*

Ms. Sabina Ng'ang'a, a Counseling Psychologist in the Office of the Director, Student Support Services, has won Ambassador for Peace Award after completing a one-year fellowship programme under Cardinal Onaiyekan Foundation for Peace (COFP), Nigeria.

This fellowship programme was started by the Cardinal Onaiyekan, retired Archbishop of Abuja Catholic Archdiocese, on grounds of conflict transformation. "When the fellowship programme was advertised a year ago, I decided to give it a try," she explained. "Fortunately I received a positive feedback inviting me to the programme and I was so happy to have been given that opportunity," she said.

The programme was attended by people from various countries in Africa including Democratic Republic of Congo (DRC), Kenya, Cameroon, South Africa, Egypt, Morocco, Central Africa, Angola, and Nigeria.

Ms. Ng'ang'a is the first Kenyan to graduate from the fellowship programme

and receive this award. In addition, to the awards, Nile and Veritas University respectively awarded her certificates in Inter-Religious Dialogue, conflict transformation and mediation.

Ng'ang'a has worked in TU-K for 35 years as a counsellor and also an inter-religious leader. During her illustrious career, she started the inter-religious Club in TU-K that has steered students into greater heights in their spiritual and social lives.

Ms. Ng'ang'a holds a Master of Arts in Counselling Psychology with specialisations in conflict transformation, peace building, and mediation. She is also a member of Inter-Religious Council of Kenya and has always been passionate about counselling not only for the students in the varsity but also the staff. The Cardinal Onaiyekan Foundation for Peace (COFP) fellowship is a one-year programme that prepares, equips, inspires and engages religious and community leaders of diverse faiths and cultural backgrounds, academicians,

media personalities and peace actors with skills in interfaith dialogue, conflict transformation, leadership and mediation.

COFP recognises that most conflicts in Africa are symptoms of deeper structural problems arising from all manner of exclusion - religious, ethnic, political, economic, gendered - that can only be adequately resolved through governance structures that are both ethical and just. COFP strives to address these challenges, among other things, promoting ethical leadership, offering a space for faith leaders, citizens and political leaders at all levels to engage in discussions for peace and development," says the organization's website.

The programme is subdivided into 3 modules and sessions, which gives fellows the opportunity to meet quarterly for one week in class and in person training during the one-year programme. The fellowship prepares fellows to become members of COFP alumni network of peace builders.



# Student Wins Marketing Award



*Gloria Rotich from MCK awards James Okello with certificate and trophy*

James Faraja Okello, a third year diploma student at the School of Business and Management Studies, was awarded the Student Marketing Award during the Marketing Society of Kenya Annual Gala Awards 2022. The event took place at the Sarit Expo Centre on the 2<sup>nd</sup> December 2022.

Mr. Okello wrote an outstanding case study that provided a winning and practical marketing strategy for a start-up company with an aim of growing its revenue.

The Marketing Society Kenya (MSK) Award is undertaken as a recognition of real excellence in marketing and aims to celebrate work that's born in companies with cultures where innovation and creativity thrive to grow business. Special focus was given to 6 sectors that influence the functionality of any economy: Academia, manufacturing, technology, finance, health, and hospitality.

This year's Gala theme was: "60 years of Greatness: Revolutionising Fun, Funk and Soul. The event also featured diverse entries with the inclusion of sector-specific awards as well as income-based categories to ensure that the event is holistic - incorporating all players within the marketing sphere.

Marketing Society of Kenya is the national umbrella body for all marketers whose key mandate is to empower

and regulate the marketing industry by creating policy that governs the Marketing Industry (self-regulated), education and training of professionals, corporates and entrepreneurs, marketing and business mentorship and arbitration through the Advertising Standards Board.



*James Faraja Okello*



*Dr. Stephen Kiriinya (left) of the Department of Business Administration-Marketing. He mentored James Faraja Okello (right).*

# Kilifi County launches TU-K supported Spatial Plan



Department of Urban and Regional Planning Academic Team Leader, Prof. Lawrence Esho (left) taking Kilifi Governor Amason Kingi (centre) through a spatial plan TU-K helped develop for the County. Looking on is the University Secretary and Chief Legal Officer, Mrs Ruth Kirwa.



University Secretary, Mrs Ruth Kirwa hands over the Spatial Plan to Kilifi Governor Amason Kingi.

The Technical University of Kenya (TU-K) has commended the County Government of Kilifi for the completing and unveiling of the County's Spatial Plan that guides sustainable development. Through a partnership with the County, TU-K under the leadership of Prof. Lawrence Esho, provided support in developing a Geographic Information System (GIS) Spatial Plan leveraging on the University's expertise in spatial planning and geo-spatial engineering, thus complementing the County Planning Department's limited establishment of in-house experts.

The Spatial Plan is the first to be initiated by a county government in Kenya that called for extensive participation and integration of elaborate data collection, analysis and interpretation.

The VC, Prof. Francis Aduol, praised the County for taking the lead in setting up the spatial plan noting that this will champion necessary changes to realise growth potential towards overall development in the country. The VC was represented at the ceremony by the University Secretary, Mrs. Ruth Kirwa.

"Through this elaborate fieldwork and stakeholder process, the planners were able to quickly capture the different facets of the County's growth dynamics, map its key resource potentials, and appreciate the challenges confronting its peoples,"

Prof. Aduol noted.

He said that the collaborative effort also yielded proposals that had since been adopted by the National Government.

"The process was also able to anticipate the changes needed to realize the County's growth potential, and to translate acquired insights into an equally elaborate and responsive framework to position the County towards realization of its growth agenda. So pertinent were the planned proposals that a significant portion of programmes were captured and adopted into the National Government's development agenda," Prof. Aduol said.

He cited a case of the territorial structuring concept dubbed "The Olympic Rings," which also doubles up as penetrative

**"Through this elaborate fieldwork and stakeholder process, the planners were able to quickly capture the different facets of the County's growth dynamics, map its key resource potentials, and appreciate challenges confronting its peoples."**

**—Prof. Francis Aduol**

transportation framework to open up the County's rural interior. Construction of various roads that complete these rings are nearing completion.

Kilifi County Governor Amason Kingi said the Plan was critical for the people's development and growth as well as for prospective investors.

"The product we have launched today is not just a product for Kilifi County but a product for Kilifi people as well. With the Spatial Plan, we can comfortably direct you where to invest depending on what you are investing in," said Kingi.

The Governor added that the tool is elaborate in informing County budget and the planning of settlements in various towns and villages throughout the County

Other partners involved in the project included; World Wide Fund for Nature (WWF-Kenya), the Ministry of Lands and Physical Planning, National Land Commission and other government agencies. WWF-Kenya CEO, Mohamed Awer challenged the County Government to fully implement the project to see full fruition and impact.

"We are happy to be part of this process. It is now time to go for the full implementation of the Spatial Plan for the highest impact and we will all be celebrating in the next 10 years," said Mr. Awer.



# VC Wraps Up Orientation Programme



*The VC, Prof. Francis Aduol when he virtually addressed First Year students*

The Vice-Chancellor, Prof. Francis Aduol recently gave his welcoming speech to 1<sup>st</sup> year students who have been placed at TU-K, marking the end of a 7-day orientation period.

In his remarks, the VC gave a detailed background of the University to help the 1st year students understand the prestigious nature of TU-K. He urged the new students to take pride in having satisfied the University Senate and The Kenya Universities and Colleges Central Placement Service (KUCCPS) to secure placement in a leading institution of higher learning in this country.

The VC said that TU-K had some of the best facilities for the study of technical programmes, humanities and social sciences, and is ranked amongst the top ten universities country-wide.

"As freshers admitted to the University today, you have come through the Senate and KUCCPS. The University has admitted you because it is satisfied that you are competent to pursue your various academic programmes. You have thus been admitted to a very unique institution at a very unique phase in your life; you have to note that a university is not just an extension of high school but rather it is a collection of scholars and students meeting in pursuit of knowledge," said

Prof. Aduol.

The VC further asked freshers to appreciate their academic freedom and avoid misinterpreting it to engage in illicit activities. "Academic freedom has three dimensions, there is the freedom for research, teaching and learning."

Prof. Aduol, reiterated that the first years should use their time to accomplish their academic studies within the stipulated time.

"It takes proper time management, hard work, patience, and discipline for a student to successfully navigate through university education," stated the VC.

He also said Industry-Based Learning as an important and compulsory activity in their studies. The Vice-Chancellor implored the freshers to have an interest in scholarly enquiries and learning, ask questions where relevant, read widely and

**"It takes proper time management, hard work, patience, and discipline for a student to successfully navigate through university education"**

**- Prof. Francis Aduol**

keep in touch with their lecturers. The first year students were also advised to conduct themselves with high levels of integrity and decorum and avoid bad company.

The July 2022 intake, welcomed a total of 2597 students comprising 1,872 Government-sponsored and 725 self-sponsored students.

The 7-day orientation programme began with face-to-face interaction at Faculty level led by the Executive Deans, Directors of Schools and Academic Team Leaders. The Executive Deans talked to the new students about the rules and regulations governing their stay on campus. For instance, attendance of classes for every student should not be less than 75 per cent for them to be allowed to sit examinations.

The Deputy Vice-Chancellor, Prof. Paul Shiundu who also addressed the students during the orientation programme, gave them valuable advice on how to excel in their academics as well as social life. He stressed on the need for proper time management and self-discipline.

The orientation programme introduces new students to the rigours of academic life in the university, and the opportunities, responsibilities and resources available to assist them in connecting with the community of peers and the larger campus.



**PICTORIAL**



Students from Ikuu Boys High School in Tharaka Nithi tour one of the workshops at the university. They were on an academic visit at TU-K, and were hosted by Faculty of Engineering and Built Environment Executive Dean, Prof. Edwin Ataro.



Director of TVET Programmes CT Akumu (right) presents a gift to the VC Prof. Francis Aduol when he paid him a courtesy call



Prof. Renata Wenzkovich from Columbia University, New York, speaks to TU-K staff, postgraduate students from the School of Physics and Earth Science and researchers from collaborating institutions including; CUEA, JKUAT during a 3-day workshop on 'Computational AB initio Quantum Thermodynamics. The workshop was part of the deliverables for a 10-year collaboration between TU-K and Columbia University.



Students perform during their Award ceremony organised by SATUK.



Students from Metige Boys Secondary School from Kirinyaga being briefed in one of the workshops at TU-K. They were on an academic tour and were hosted by Faculty of Engineering and Built Environment Executive Dean, Prof. Edwin Ataro.



Mr. Kephas Mita, a technician at the School of Biological Sciences explains to students during a practical lesson.





*A delegation from Jaramogi Oginga Odinga University of Science and Technology (JOOUST) including; the Director TVET, Dr. Erick Okuta (right); Deputy Registrar and Member of TVET Board, Ms. Ettah Agalo (3<sup>rd</sup> right) and Assistant Registrar, Academic Affairs TVET Mr. William Abungu (3<sup>rd</sup> left) during a visit to TU-K on a benchmarking mission. They held joint meeting with a team from Faculty of Engineering and Built Environment including Executive Dean, Prof. Edwin Ataro (2<sup>nd</sup> right); Ag. Academic Registrar, Dr. Moses Wamalwa (2<sup>nd</sup> left); Ag. Senior Assistant Registrar, TVET, Alice Mutai (4<sup>th</sup> left); Administrative Officer TVET & HR, Benard Nahasion Otieno (4<sup>th</sup> right) and Computer Science Lecturer, Informatics, Owira Dalmus Ogutu (left).*



*Association of Technical Universities and Polytechnics in Africa (ATUPA) Secretary -General Mrs. Jahou Faal presents a gift to the VC Prof. Francis Aduol during a courtesy call.*



*Third Year Aeronautical Engineering students during a visit to Wilson Airport for an On-Aircraft Instruction. The Prof. Ondore is flanked by Mr. Sam Akech, the Director of Kenya Aeronautical College which hosted the students.*



# VC Meets 18 Beneficiaries of Kenya-French Collaboration



*Language Assistants traveling to France to teach English together with their colleagues who just completed their seven-month stint in France pose for a picture with the Vice-Chancellor Prof. Francis Aduol (front 5<sup>th</sup> left); DVC-ASA Prof. Paul Shiundu (front 6<sup>th</sup>) and Modern and Classical Languages Academic Team Leader Dr. Teresa Atieno Otieno (Front 4<sup>th</sup> left).*



*The Vice-Chancellor, Prof. Francis Aduol, DVC-ASA, Prof. Paul Shiundu (right) being briefed by Dr. Teresa Atieno Otieno.*



*The VC, Prof. Francis Aduol congratulates Mr. John Mutimba, one of the Language Assistants who completed his seven months teaching stint in France. Looking on is the DVC-ASA, Prof. Paul Shiundu.*

The Vice-Chancellor, Prof. Francis Aduol, met students who had just completed a 7-month teaching assignment in France. The VC also met a new cohort of 8 students who were preparing to leave for France in September, 2022.

Since October 2019, TU-K has been participating in the programme that takes Kenyan university students to France to teach English while students from France come to Kenya to teach

French. This exchange is a collaboration between France Éducation International, an agency of the French Ministry for National Education, Youth and Sports, the Embassy of France in Kenya and Somalia, and Kenyan universities. Among the returning students, 11 have earned an extension to their assignments and will return to France in September for a further 7 months. Two of the previous group of 13 have received scholarships to

pursue post-graduate training in France.

During the meeting, the returning students narrated their experiences in France. Prof. Aduol also presented certificates to TU-K French Club members who had done tremendous activities. He congratulated all the students who had benefited from this programme indicating that they are the University's and country's ambassadors.



# Embassy Staff Pay VC Courtesy Call



*French and France Education Internationale of the Réunion Island delegation led by Ms. Laurence Mondésir pose for a picture with the VC Prof. Francis Aduol, DVCs and other senior staff.*

A delegation from the French Embassy in Kenya and from *France Education Internationale* of the Réunion Island, paid a courtesy call to the Vice-Chancellor in October. The issues discussed included the already existing collaborations between the Embassy of France and the Technical University of Kenya in line with the teaching of French language. They discussed other areas of possible

collaborations with the Department of Modern and Classical Languages through the VC's Office. The delegation from the French Embassy included: Ms. Laurence Mondésir in charge of educational and linguistic mission, Embassy of France in Kenya, and Mr. Bernard Clouteau the Cooperation Attaché for French while the delegation from the Réunion included

Anne-Charlotte Henry, International Cooperation Officer/ International Project Manager and Mr. Fabien Albouy, Director, *France Education Internationale*.

Ms. Mondésir praised the TU-K English language assistants for being very good ambassadors in France. For the academic year 2022/2023 TU-K is the only university in Kenya hosting two French language assistants from France.

## French Envoy Hosts Cocktail Party

As part of the Language Assistants in France programme, and on the occasion of the departure of the class of 2022-2023, Her Excellency Mrs. Aline Kuster-Menager, the then Ambassador of France to Kenya and Somalia, hosted a reception in September at her residence. On the photo are Professor Paul Wambua, DVC (IAE), Dr. Teresa Otieno, Academic Team Leader, and the student contingent.



*TU-K language assistants serving in France, pose for a photo with Prof. Wambua.*

# 2022/2023 SATUK Leaders Sworn-in

By Michele Kogo

The Technical University of Kenya Students' Union, SATUK, has new leaders for the year 2022/2023. Kirera Denis Muchoki was elected the Chair, and Abdi Habiba as his Deputy.








Ogutu Peter Omondi was elected Secretary General, Cheptekei Mellon (as Finance Secretary, Stephany Awour Oraro (as Academic Secretary) and Kaisali Mercy Mawia (Gender and Social Welfare Secretary). Others elected included Odhiambo Ouma Vincent (Sports, Entertainment and Culture Secretary), Sitaita Denis Dapash (Men's Hostel Representative) while Sarah Celine was elected Women's Hostel Representative. Shampi Anna Ngendo Gakuna was elected as Speaker, Anampiu Aaron Bundi as the deputy while Doris Jerop Serem as Clerk and Harry Agere Sigunga as Sergeant-at-Arms.

School representatives and their deputies were also elected.

The new leadership was sworn in by the University Secretary and Legal Officer, Mrs. Ruth Kirwa, Deputy Vice Chancellor, Academics and Students Affairs Prof. Paul Shiundu commended the electoral team and students' fraternity for conducting the nominations and elections peacefully. "I am happy that we have matured to the extent that we realize that we must take responsibility of what we do," Prof. Shindu noted.

Also present during the swearing in ceremony were DVC, Institutional Advancement and Enterprise Prof. Paul Mwanzia Wambua, Executive Dean, Faculty of Engineering and Built Environment Prof. Edwin Ataro, university administrative and teaching staff and students.

Prof. Shiundu who represented the VC Prof. Francis Aduol said, "I want to take this opportunity to congratulate all of you for being elected as the next cohort of SATU-K leadership. I also thank the outgoing SATU-K officials for doing a splendid job and encourage them to share and work with the incoming team to make the student leadership better." TU-K Dean of Students, Prof. Omondi Oketch was impressed by gender balance in the new leadership. "For the first time we have four out of seven council members who are female"

		
<b>Kirera Denis Muchoki</b> EMAQ/02823P/2018 Chairperson	<b>Abdi Habiba</b> ESEI/00481/2020 Vice-Chairperson	
		
<b>Ogutu Peter Omondi</b> SHCI/01842/2019 Secretary General	<b>Cheptekei Mellon</b> SHNF/01888/2020 Finance Secretary	
		
<b>Stephany Awour Oraro</b> EEEQ/01704/2019 Academic Secretary	<b>Kaisali Mercy Mawia</b> ASEQ/00635/2019 Gender & Social Welfare Secretary	<b>Odhiambo Ouma Vincent</b> EMCQ/00419/2018 Sports, Entertainment & Culture Secretary



**TU-K Students casting their votes**

Prof. Oketch also pointed out the religious diversity also manifested with fair balance among the religious factions at the University "This has demonstrated that TU-K respects views and associations irrespective of ethnicity, religion, colour

and background," Prof. Oketch added.

The SATU-K Electoral Board Chairman, Fred Sawenja commended his team for successful elections. He congratulated the incoming leaders and urged them to serve with dignity and integrity.



# 2022/2023 Student Congress



**KIPRONO IAN**  
EACQ/00061/2020  
SPEAKER (SCPS)



**BOSIRE NYAMINSA VIVIAN**  
AIGM/00710/2021  
DEPUTY SPEAKER (SISS)



**ONGIRI WINNIE ATIENO**  
EMAQ/00377/2018  
CLERK (SAVE)



**OCHIENG LUCKY KOMALA**  
AHIU/01079/2019  
SERGEANT-AT-ARMS (SHHE)



**EUPHEMIA M. GICHABA** EAAQ/00022/2020  
**NGUMA ALEX MUNYAO** EAUR/01164/2020  
SCHOOL OF ARCHITECTURE AND SPATIAL PLANNING



**MUTUKU E. MUTHIU** EMCCO/01680/2019  
**OJUKA JOEL ONYANGO** EMCCO/01500/2020  
SCHOOL OF CHEMICAL AND BIOLOGICAL SYSTEMS ENGINEERING



**KEBASO J. KWAMBOKA** EICU/01571/2019  
**JAPHETH O. OKELLO** EICU/01367/2020  
SCHOOL OF CIVIL AND RESOURCE ENGINEERING



**NYANGENA H. NYAKEGO** EMAQ/00397/2018  
**NDWIGA GRACE WENDO** EARQ/00693/2020  
SCHOOL OF AEROSPACE AND VEHICLE ENGINEERING  
SCHOOL OF CONSTRUCTION AND PROPERTY STUDIES



**KIMUTAI J. SHEILA** EEEI/01509/2019  
**GATTI CYRUS GITONGA** EEEI/02648/2020  
SCHOOL OF ELECTRICAL AND ELECTRONICS ENGINEERING



**ALICE NJOKI NJOROGE** EMMG/02648/2020  
**GORI ONSERIO BOAZ** EMMI/01511/2019  
SCHOOL OF MECHANICAL AND MANUFACTURING ENGINEERING



**MUSEMBI REGINA** ESSU/01631/2019  
**KIBET C. CHERUIYOT** ESSQ/01666/2019  
SCHOOL OF SURVEYING AND GEOSPATIAL SCIENCES



**MWANGI SUSAN NGIMA** SHBI/00888/2020  
**VINCENT PADDY** SHBI/00913/2020  
SCHOOL OF HEALTH AND BIOMEDICAL SCIENCE.



**BRAVELIN B. A. OTIENO** SBBQ/00333/2019  
**MACHARIA S. IHURE** SBBQ/00313/2019  
SCHOOL OF BIOLOGICAL AND LIFE SCIENCES



**LUCY THUIYA KIRI** SDIU/01078/2021  
**FANUEL MWITA** SPCU/01226/2019  
SCHOOL OF CHEMISTRY AND MATERIAL SCIENCE



**KIGWERU M. C. WAWIRA** SCCU/00594/2021  
**ONYANGO I. P. OMONDI** SCEE/01948/2020  
SCHOOL OF COMPUTING AND INFORMATION TECHNOLOGY



**ABDALLA H. LEILA** SMPD/01377/2018  
**OWUOR M. OTIENO** SMSU/01233/2020  
SCHOOL OF MATHEMATICS AND ACTUARIAL SCIENCE



**OCHIENG' IVY AWUOR** SPGE/05085P/2021  
**ODHIAMBO FRANKLIN** SPPU/01015/2020  
SCHOOL OF PHYSICS AND EARTH SCIENCES



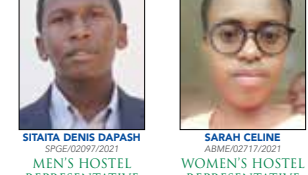
**MWANGI E. WAMUYU** ACJE/02420/2021  
**MWANGI G. WACHIRA** AUU/00961/2020  
SCHOOL OF CREATIVE ARTS AND MEDIA



**KIMONDO K. WANINI** ABBH/02031/2020  
**NGEI CHARLES MATHEKA** ABBQ/00514/2019  
SCHOOL OF BUSINESS AND MANAGEMENT STUDIES



**MATEI ALICE KANINI** AHIQ/02538/2020  
**OUMA DENIS ONYANGO** ALLP/02416/2020  
SCHOOL OF HOSPITALITY AND HUMAN ECOLOGY  
SCHOOL OF INFORMATION AND SOCIAL STUDIES



**SITAITA DENIS DAPASH** SPGE/02097/2021  
**SARAH CELINE** ABME/02717/2021  
MEN'S HOSTEL REPRESENTATIVE  
WOMEN'S HOSTEL REPRESENTATIVE

# Students Awards Ceremony Held



*Student Leader, Mr. Mani Peter Mwangangi making his speech during the award ceremony*



*Outgoing Student Leader, Mr. Mani Peter Mwangangi (right) presents certificates to winners*



*Dean of Students, Prof. Omondi Oketch (right), chats with Irene Kendi (centre) and Lucy Daisy (left) during the awards ceremony.*

The Students Association of the Technical University of Kenya (SATUK) recently held its students Awards ceremony at the Main Hall. The Chairman of SATUK acknowledged that the competition was stiff with various students and departments managing to scoop awards.

The awards consisted various categories such as: Vice-Chancellor's award, Most Influential Student, Faculty of the Year, School of the Year, Department of the Year, Student Leader of the Year, Club of the Year, Religious Group of the Year, Indoor Games Team of the Year, Outdoor Games Team of the Year, Blogger of the Year, Most Innovative Student, Most Talented Student, Poet of the Year and Dance Crew of the Year.

The Vice-Chancellor's Award was scooped by Lenox Odhiambo who garnered 31% of the votes. Most Influential Student was won by Otiato Kabeta with 39.4% votes. The Faculty of the year award went to Faculty of Engineering and Built Environment which managed 51.5%. The Department

of the Year award was won by School of Electrical and Electronics Engineering with 34.6% votes. Tony Blair Onyango surpassed other competitors to win the Student Leader of the year with a 41.2% of the votes. The Drama Club managed to beat the other clubs to scoop the Club of the Year award with 28.2%.

The Technical University of Kenya Christian Union won the Religious Group of the Year having the majority of the students under that religion with 57.1% of the votes. Other faiths include Young Catholic Society, Seventh Day Adventist

**The awards included Most influential Student, Faculty of the Year, School of the Year, Department of the Year, Student Leader of the Year, Club of the Year, Religious Group of the Year, Indoor Games Team of the Year were some of the awards.**

and Muslim Association. The Indoor Games Team of the Year was scooped by the Chess team which managed 43.2% of the votes.

The Outdoor Games Team of the Year went to Technical University of Kenya Hammers with 30.3%. Mr Abuya Stanley won the Blogger of the Year award garnering 52.1% votes. Dj Spinnix managed to beat his competitors to win the Most Talented Student Award having 46% of the votes cast. The Poet of the Year was scooped by Siza the Poet having 32% of the votes.

The Director Student Services congratulated all those that won the various awards and advised them to improve themselves on a daily basis. The award ceremony was also graced by Miss Lucy Daisy who is an alumnus of TU-K. Miss Daisy who happened to contest for the Miss President show which aired on KTN Home. She encouraged the students to do better everyday adding that TU-K is one of the leading universities that has offered opportunities for the betterment of the students.



# Diversity is Key to Growth - Canadian Don



Dr. Joan Lilian Ogendo (left) and Dr. Judith Wasike (3<sup>rd</sup> from left).



Dr. Stacey Fitzsimmons



Group photo of participants

By Michele Kogo

In October 2022, the School of Business and Management (SBM) held a workshop themed Equality, Diversity and Inclusion in International Business.

The workshop was graced by Dr. Stacey Fitzsimmons, an Associate Professor of International Business and an academic research officer from the University of Victoria, Canada.

Key discussion areas were gender equality on international businesses, diversity in races while handling international businesses and inclusion of the different religious backgrounds and beliefs.

Dr. Fitzsimmons led the discussions by giving an analysis through brainstorming and questionnaires done by the Women in the Academy International Business (WAIB). The different categories of diversity included

gender which was the most popular research completed by highlighting different ways of incorporating both genders in international businesses, morality, religion, culture, just to mention a few.

The said research also touched on how it affects international businesses, organisations and institutions. It elaborated how they should incorporate gender equality should in an

**Key discussion areas were gender equality on international businesses, diversity in races while handling international businesses and inclusion of the different religious backgrounds and beliefs.**

international setup.

International business deals with specific requirements from various countries. For example, to set up a business in Kenya, one must think about ethnic diversity and incorporate personnel from the different ethnic backgrounds. Dr. Fitzsimmons stated that a lot of gender research has been done while little or no research done on other categories such as culture, religion and morality.

Dr. Fitzsimmons concluded by posing the questions: What is Diversity? What is the purpose of diversity? Why should organizations diversify? What are the strengths and weaknesses of diversity?

Present in the workshop were members from the Faculty that included Prof, Evans Sagwa, Dr. Joan Lilian Ogendo, Dr. Judith Wasike, Dr. Headmound Okari, Ms Petwa Malaba, Ms Evalyne Masindet.

# Students Showcase Timeless Designs



Models showcase various designs.

The Department of Fashion, Clothing and Textiles in the School of Hospitality and Human Design, organised a fashion design exhibition to showcase third year student's talent in clothing. This event took place at the Main Hall. The Hall was filled with pomp and color as the fashion design students prepared to give the university community and invited guests a great show. Winam Anyango was first on stage with his models who dominated the runway, his line of outfits was inspired by the sun. The models walked down the wooden aisle in an array of various colours, ranging from orange, yellow and black.

Shifrah a student whose line of design was inspired by Festival Carnival,

gave her models a summer look. The short dresses and skirts can be worn during hot weather. Her colour theme was white, purple and some shades of blue, accessorised by classy necklaces worn by her model to give the design an edge.

The third student to showcase her work was Wanjiru, inspired by Mandala Art, a complex abstract design that is usually circular in form. The theme for this line was shades of purple and white. Models showcasing this line catwalked gracefully to give the audience a full view of the print and details on the clothes.

The next work was inspired by the Chinese Hanfu, a historical dress of the

Han people. It usually has long flowing robe with loose sleeves and a belt at the waist. However, Hanfu is a diverse term including different styles of clothing from different dynasties. Glaridah's theme was derived from this cloth, with the colours being black and white with some shades of gold. The models wore long flowy coats/kimonos accompanied by shorts, skirts and Knee high dresses. They also donned fancy eye wear to add a lift to their outfit which seemed like a great idea for the designer.

June, also a student showed her designs that were stirred up by Yin and Yang, a Chinese philosophical concept that describes opposite but interconnected forces. The colors





indeed resembled the Yin Yang symbol that is usually black and white. The models dawned stylish jumpsuits and sleeveless dresses.

The next line on the runway were designs inspired by the Panda and Bamboos created by Ivy. Her beautiful models dawned the stage with magnificent jungle green, white and black colors. The look was made complete by the boots and bamboo sticks which they held as they cat walked.

Anne was next in line with her designs which were inspired by Neerkat. This consisted of African print and some shades of pink to add to the

black and white. She was followed by her classmate, Vivian, whose designs inspirations came from the Marine life. The clothes consisted of bold colors which were exhibited in green, yellow and hats to accessorise the look.

Next was Wiki, another fashion student with an inspiration from Horses/ jungle. These designs were accessorised by sunglasses and small bags. Lisa was next with her designs inspired by nature, the material for this line was made of snake and other animal prints.

Mumbi came up with designs stirred up by street party girl, her colour choice for the clothes being peach and white. Finally, Jabez closed the show with his

line of Web art inspiration that consisted of white and cream. The clothes worn were coupled with fishnet stockings giving it the timely spider web look.

This fashion show was essentially to exhibit third year students practical work that had been graded by their lecturers. Invited guest, Esther Kute, who is a designer and a fashion student commended the students hard work. She implored them to keep up the energy even as they neared completion of their studies and by doing so they would find opportunities in the fashion industry.

# WITED TU-K Chapter Revived



*A section of participants during consultations on the revival of WITED TU-K Chapter*

The Women in Technical Education (WITED), TU-K Chapter has revived its operations. The initiative, whose mission is to identify and promote opportunities that are responsive to the professional and personal development of women and girls in technical education and training, was first started at the Kenya Polytechnic in October 1985. The Kenya Polytechnic administration, which at the time was affiliated to the then Commonwealth Association for Polytechnics in Africa (CAPA), saw the need of involving more females in technical education. The initiative ran its activities for two years until 1987 when due to financial constraints, it was halted temporarily. CAPA then took up the initiative and started it as one of its projects in 1988. It went on to encourage all African countries, where it was represented, to form WITED chapters. WITED aimed to identify and address the issues that inhibit the significant participation of women in technical education and development for enhanced national development.

To make CAPA an all-inclusive organization, the name CAPA has since been changed to the Association of

Polytechnics and Technical Universities in Africa (ATUPA). It has since made strategic moves to revitalise WITED in Kenya by reviving the TU-K Chapter. To attain its mission, WITED seeks to; demystify science and technology, increase the representation of women in technical professions, empower women into leadership, policy, and decision-making positions, research the current and emerging trends and create awareness of the available opportunities for women, increase public awareness to give equal opportunities for women in technical education in the workplace, reach out to schools i.e. (primary and secondary schools) and the TVET institutions

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**To make CAPA an all-inclusive organisation, the name CAPA has since been changed to the Association of Polytechnics and Technical Universities in Africa (ATUPA).**

country-wide to create awareness of the academic and professional technical courses available at TU-K for career progression.

The TU-K chapter intends to use ambassadors to mobilise more students and staff to join WITED, collaborate with mentors such as women engineers and stakeholders from the industry and academia as role models for the girls, intensify the school outreach program from primary schools through secondary to TVET institutions, reach out and collaborate with the Alumni community, organise STEM-based competitions, challenges, boot camps, and hackathons for girls to participate, encourage employers to sponsor female employees for technical courses, organise and conduct gender mainstreaming workshops and impact the community and society through organising skill-based training to empower women in skills like soap making, extracting coconut oil, and bead making among others. There is hope that with the support and commitment of all stakeholders, acceptable equity of gender could be realised in most of Kenya's social-economic endeavours.



# TU-K Receives Medical Supplies

The Pharmacy and Practice Lab received sample drugs from Phillips Therapeutics/ Pharmaceuticals Kenya Limited.

The DVC, Research and Technological Development, Prof. Isaac Orina and the Director School of Health and Biomedical Sciences, Dr. Naomi Waiganjo, together with the lecturers and lab technologists were present to receive the supplies presented by the Chief Executive Officer (CEO) of Phillips Therapeutics/ Pharmaceuticals Kenya, Mr Newton Siele.

The drugs will be used in teaching pharmacy practice laboratory and also in the new programme of Industrial Pharmacy whereby students will be taught how to convert raw materials into finished products. Among the supplies donated were drugs, pharmaceutical handbooks and lab coats.

The staff at the Department were elated to receive the supplies and said they had dedicated a lot of time on the new programme and therefore they looked forward to working with Philips Therapeutics and other global manufacturers.

Mr. Siele gave a brief history of the company and how it rose to become one of the top players in Africa with offices outside Kenya. Mr. Siele explained what the company basically does including regulatory work, warehousing, branding and promotion (marketing), end-to-end drug distribution and technology.

He added that in future, they were



*Pharmaceutical students during the function*

looking forward to partnering with various universities for student training programmes.

There was an interactive session after the meeting with staff, whereby pharmaceutical students got an opportunity to freely engage Mr. Siele. The most prominent question posed was whether Philips would offer attachment opportunities. Mr. Siele assured the students that those who were willing to look at other areas other than clinical

pharmacy which is popular and the most preferred would get possibilities of attachment. He went ahead to encourage them to look at areas such as warehousing, regulatory, research and pharmaceutical marketing and technology which are all under Pharmacy but less preferred.

The students were advised to identify their niche because pharmacy is wide, and with a changing world in terms of technology and market, areas such as technology whereby a pharmacist will educate people on drugs and other things will become the future of pharmacy.

Mr. Siele urged the students not to take this opportunity for granted. "You need to start thinking about your future 10 years from now and where you would want to be, which is very important. Chart your life, chart your career and you will not regret."

**The discussions explored potential research collaborations between the Researchers at DOD-USA and TU-K.**



*CEO Philips Therapeutics Kenya, Mr. Newton Siele, handing over lab coats to Dr. Mercy Adera of the Department of Pharmaceutical Sciences and Technology. Looking on is the DVC, Research and Technological Development, Prof. Isaac Orina (left), Director, School of Health and Biomedical Sciences; Dr. Naomi Waiganjo and other technical staff.*

# Alumni in the Diaspora Shine

Julius Olumeh graduated from the Technical University of Kenya in 2015. He pursued a Bachelor's degree in Applied Biology. In a detailed interview with *Larrissa Odini*, Julius shares his experiences while at TU-K and how the institution shaped him to be where he is today. Currently he is pursuing a PhD at the University of Newcastle, United Kingdom.

## How was your experience like as a student at TU-K ?

My experience at TU-K was a significant pedestal to my career trajectory this far. I was part of the pioneer class of the Bachelor's of Technology degree course following the University's charter award. The faculty were all very supportive from the Director of the school Prof. Dorcas Yole and various departmental heads, including my mentor Dr. Susan Imbahale. The modules offered were interesting, instilling both technical and practical skills to identifying problems and critically evaluating solutions with a touch of new technologies. Besides academics, student life was robust providing opportunities to develop leadership, career expertise and interpersonal skills. I had the opportunity to take up various leadership roles such as Vice-Chairman and later Chairman to the Science and Technology Students Association, students congress faculty representative and also speaker of the students' congress. Additionally, I was a prolific basketball player who participated in the National University Basketball League.

## Who were some of your lecturers and what was your favourite unit?

Looking back, the modules on microbiology taught by Dr. Vitalis Wekesa, entomology by Dr. Vijaay where we had an opportunity to learn and practise silkworm farming with case studies on its role in reinventing the textile industry in India, biotechnology and various plant science modules by Dr. Susan Imbahale became major stepping stones to my career progression and interest in finding solutions to sustainable livelihoods. My lecturers, paved the way to networks with various scientists including Prof. Arne Witt, a globally renowned researcher



**Alumnus Julius Olumeh (Class of 2015) with Professor Brian Walker (Deputy Vice-Chancellor, Newcastle University) during a scholarship award and presentation ceremony at Newcastle University**



**Julius Olumeh screening tomato varieties for resistance to pests at the Newcastle University Centre for Plants and Biodiversity Research.**

and Prof. Richard Wolfgang Mukabana, a medical epidemiologist and expert. Through their guidance, I managed to secure recommendations to the British foreign and Commonwealth Office for the award of the prestigious fully funded Chevening Scholarship to pursue an MSc at Newcastle University in the United Kingdom (UK), and later my doctoral research funding from

the Commonwealth that is on-going at the same university.

## What is your fondest memory while at the institution?

My fondest memory at TU-K was participating in the student union elections. It provided a lifetime opportunity to practise and sharpen my leadership skills,



communication, networking as well as juggling between managing my academics and participating in extra curricula activities.

**Briefly describe your journey since graduating from the Technical University of Kenya?**

At the time of my graduation, I was working as an intern in the invasive species biocontrol programme at CABI, Kenya office. Over time I developed interest in biocontrol of pest and diseases to reduce use and effects of synthetic insecticides to human health and biodiversity which informed my decision to pursue a master's degree. In 2016, I was privileged to be selected among the 32 Kenyans for the award of the prestigious Chevening scholarship, by the British and Commonwealth Foreign Office to pursue a Master of Science (MSc) degree in Agriculture and Environmental Science at Newcastle University in the UK. During my MSc studies, a field visit to Crete, in Greece presented a lifetime opportunity to interact with researchers, agroproduction experts, industrial players, and farmers in the UK, which helped me understand various approaches and practicalities in sustainable agriculture. Following completion of my studies and graduation in December 2017, I went back to Kenya. However, I was not able to immediately secure a job which was quite frustrating. I volunteered at the Kenya Youth Biotechnology Network, under NACOSTI up until I was employed as a tutorial fellow at a local university where I also coached the university basketball team upto the Kenyan University Sports Championship level. Afterwards, I joined the International Centre for Malaria Research (ICEMR), Homabay Field Station as a research assistant. It was during this time that I was selected for a PhD scholarship in the UK under the Commonwealth PhD research fund for developing countries. This was largely informed by my career prospects and optimism in agricultural research and environmental sustainability. I moved to the UK, back to Newcastle university where I am currently on the second year of my PhD research.

**Do you think Technical University of Kenya prepared you adequately for the industry?**

Yes. Indeed, TU-K remains an important pillar that instilled the values and skill sets that have supported my easy adaptability to my career path in research and biosciences sector. Graduating with a strong upper second-class honours met the criteria for most funded opportunities both locally and abroad as evidenced by my career path and formed a strong base for my Master's and PhD degree studies. To date, I still consult closely with my lecturers and mentors at TU-K on various networks. They have offered insights into challenges that I face both in industry and research. My hope is to return home and engage with policy developers, experts, and university researchers to develop better understanding of challenges faced by the Kenyan farmers with a view to develop proactive solutions to integrated agricultural production systems and policies, while also focusing on environmental conservation and protection of biodiversity.

**What advice can you give to current students?**

Students should be open to the many opportunities available locally and globally. They should take personal initiative to attain the required skillsets to meet global demands and be competitive. This is not easy as it requires hard work, commitment, dedication, sacrifice,

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**I believe the alumni association plays an integral role in the development and sustainability of a university. By sharing their experiences while at the university and in the outside world, alumni can shape the future of the university.**

**– Julius Olumeh**

reaching out for opportunities and seeking the right guidance, mentorship and support. In the quest for knowledge and career progression, the sky is the limit and no human is limited.

**How do you think TU-K at large and the Alumni Association can benefit from its members?**

I believe the alumni association plays an integral role in the development and sustainability of a university. By sharing their experiences during their time at the university and in the outside world as well as their practical experiences within their diverse career roles, alumni can shape the future of the university as they have a good comprehension of the institution. They form an essential linkage to industry players that are important collaboration partners towards supporting and funding research projects, developing novel products and providing solutions both in academia and industry.

**As an alumnus in the diaspora, what ideas might you have for our association?**

There is urgent need to develop a robust diaspora alumni engagement programme that will provide an avenue for constant communication and engagement with all TU-K alumni. The programme should include annual and consistent meetings of all alumni, mentorship programs and fundraising activities to support different proposed development projects by the University. Besides they should develop an alumni research fund that can support students facing financial challenges with contribution from the alumni diaspora kitty.

**Parting shot?**

There is immense potential for the Technical University of Kenya Alumni community spread across the world and locally to support the University in meeting its vision and mission of preparing graduates to tackle challenges in the real world. We have borrowed the world we live in for our future generations, it's our honoured responsibility ensure to meet this realisation.

# Alumni Association Registered

The Technical University of Kenya Alumni Association (TUKAA) is now fully registered. The association received its certificate of registration from the Registrar of Societies on September 22<sup>nd</sup>, 2022. The alumni association prides in its alumni spanning all walks of life. The alumni who are spread across the globe and have risen to become influencers and opinion shapers in their various professions now have a platform to give back to their *alma mater* through various avenues such as the establishment of a bursary and endowment fund, sponsorship of development projects, mentorship amongst others.

According to the Association's constitution, alumni include graduates of the Kenya Polytechnic, the Kenya Polytechnic University College (KPUC) and the Technical University of Kenya (TU-K). The Association is currently headed by 5 interim officials whose main role is to provide support and guidance so as to ensure a smooth transition for the Association before it elects its pioneer officials through an AGM. The interim officials who are all alumni of TU-K bring on board years of experience and expertise in their various specialisations which will be of great value to the Association. They include:



**James Ngugi – Interim Chairman  
Class of 2006 (Business Administration)**

James Ngugi works at Oryx Energies as the Regional Manager, East Africa. His areas of specialisation include, business development, strategy, marketing management, oil, gas transport and logistics, supply chain management and hydrocarbon economics.



**Wamukoya Were – Interim Vice  
Chairman  
Class of 2013 (B-Phil in Printing)**

Mr. Wamukoya Were who works as a Superintendent Printer, Directorate of Information and Research at the Parliament of Kenya. He was part of the pioneer graduating class of 2013 when TU-K received its charter. He has previously worked at the Government Press. His areas of expertise include publishing and printing besides human resource management. He is also a director at Ukulima Sacco and sits in various boards.



**Milton Otuoma – Interim Secretary  
Class of 1991 (Business Administration)**

Milton Otuoma is the Founder/ Managing Partner of Bellaton Consulting Group Limited, a leading corporate training company in Kenya that assists organisations achieve growth. It consists of a high network client profile that cuts across various industries such as banking, saccos, insurance, corporates, NGO's and Government. His areas of specialisation include management and leadership training, people empowerment, customer excellence, strategic planning, performance enhancement and management consultancy.



**Eric Oduor – Interim Organising  
Secretary  
Class of 2005 (Journalism and Public  
Relations)**

Mr. Eric Oduor has worked as a journalist across various media houses in Kenya for over 20 years. He is currently an Editor with the Nation Media Group, a leading media house in Eastern Africa. He also serves as the Secretary General of the Kenya Union of Journalists and the Vice-President of East African Journalists Association where he works with journalists from 13 countries in Eastern Africa to promote press freedom and freedom of expression. He is a fellow at International Institute of Journalism, a German based media development organisation.



**Adam Kasaine – Interim Treasurer  
Class of 2002 (Business Administration)**

Adam Kasaine is the CEO of Letshego Kenya, a Pan African microlender. He has over 17 years of financial and banking experience and is seasoned in turnaround strategic planning and execution involving people and administration with a global commercial focus. Letshego is listed on the Botswana stock exchange and it provides unsecured consumer loans. Besides Kenya, it has operations in 11 countries including Mozambique, Namibia, Swaziland, Tanzania, Uganda and Zambia. Letshego works with a number of partners to deliver productive lending solutions such as affordable housing.

**Alumni include graduates of the Kenya Polytechnic, Kenya Polytechnic University College (KPUC) and the Technical University of Kenya (TU-K).**



# TUKAA Launch Ceremony Held



The VC, Prof. Francis Aduol (5<sup>th</sup> right), displays the Alumni dummy certificate together with the Alumni Interim Chairman, James Ngugi (4<sup>th</sup> Left) and Alumni interim Secretary Milton Otuoma (3<sup>rd</sup> left) during the launch of The Technical University of Kenya Alumni Association (TUKAA). Also present are DVC-Research, Prof. Alfred Orina (left); DVC-Academic and Student Affairs, Prof. Paul Shiundu (second left); DVC - Institutional Advancement, Prof. Paul Wambua (4<sup>th</sup> right); Chief guest, Jared Owuor (3<sup>rd</sup> right); Alumni Director, Maurice Okungu (2<sup>nd</sup> left) and Executive Dean, Faculty of Engineering, Prof. Edwin Ataro (right).



The VC, Prof. Francis Aduol cuts a cake during TUKAA launch with the Alumni interim chairman, James Ngugi and Chief Guest, Jared Owuor.

# Students use Pineapple, Potato Peels to make Eco-friendly Fuel

A group of Biotechnology students have explored production of bioethanol from pineapple and potato peels, which are considered as waste, to be utilized to light lamps and drive engines.

“Our research is intended to produce energy from waste to help in reducing over dependence on fossil fuels and help in environment conservation, contribute to lowering inflation and improving lifestyles,” said Bernard Oluoch.

The group used sodium hydroxide, hydrochloric acid, sulphuric acid, yeast and blended potato and pineapple peels.

“Fermentation took seven days after which we did distillation of our samples from the chemistry lab and also confirmed the absorbance of the samples using the uv/vis spectrophotometry.

The distillate from the pineapple peel sample produced a higher concentration of bioethanol compared to the potato peel sample.

The sample was able to light hence the success of our experiment.

“Our inspiration came from the current global energy crisis arising from over dependence on fossil fuels that have a lot of negative effects on the environment such as air pollution and global warming due to production of greenhouse gases. Fossil fuels are expensive and not accessible to all,” said Peter Koech, a team member. Other team members included Frankline Owino, and Pharaminus Ochora.



*Peter Koech*



*A student explaining the process of fuel making.*

# TU-K Student develops Video Robot

Mr. Gerald Mbutia, a 5<sup>th</sup> year student in the School of Electrical and Electronics Engineering (Telecommunications Option) has developed an integrated robot calibrated with intelligent software models able to learn targets and automatically take pictures and videos. The innovation is aimed at solving problems using intelligence learning that cut across manufacturing industries, military research and exploratory missions. The innovation can easily be used by digital media content creators to track subjects and automatically take moving shots.

“A camera attached to the robot is able to track face of a human being while capturing images or videos,” said Mbutia.

The project involves two systems; an actuation system and an image processing system. The actuation system is calibrated to enable various motions of the robot as it angles the camera towards the target.



*Gerald Mbutia displays autonomus video robot.*



# Skin-Care Product Developed by Students

Biotechnology students have explored possibilities of combining extracts from two plants to develop an organic skin care oil product they have branded *aloemor*.

The extracts are from aloe vera (*Aloe Barbadensis*) and Moringa tree for moringa leaves powder which has the highest concentration of antioxidants through maceration.

The team comprises third and fourth

year students including Amos Karani Kimathi, Derrick Mwashu and Alfred Otieno.

Some of the functions of the natural oil product include cure for fungal infections such as ringworms, protection against bacteria, relieve sunburns, accelerate wound healing, relieve inflammation, skin moisturising, providing natural glow of the

skin and relieving skin ageing.

“The PH of aloemor was 6 hence good for the skin. Phytochemical analysis was done to determine presence of plant components important to the skin and the following were present; flavonoids, phenolics, anthraquinones among others,” said, Derrick Mwashu, a team member.



Moringa Skin Care Product



Alfred Otieno (left), Amos Karani Kimathi and Derrick Mwashu

## TU-K Staff Take Part in Nasa Defence Test

What has always been science fiction has now become a reality. NASA has sent out a space mission to hit an asteroid and deflect it away from coming close to planet earth.

The Double Asteroid Redirection Test (DART) mission- a NASA planetary defence probe aimed at testing asteroid deflection through impact, included ground based observations by a 40cm telescope manned by TUK's Department of Astronomy and Space Science from the Turkana Basin Institute, Illeret in Marsabit County. The mission that target the Didymos binary system composed of the 780m Didymos asteroid and the much smaller Dimorphos (160 m) moon, orbiting around the primary in 11.9 hours, was actualised on 26th of September



Prof. Paul Baki

2022 at 23:14 UT (2.14 am September 27, Kenyan time).

The probe itself impacted the smaller of the two asteroids head-on and changed its orbital period by about 7 minutes, meaning that it is now orbiting the earth on an orbit that is farther away from earth. DART is the first mission to

test an asteroid deflection technique and will have important consequences for planetary defence, especially to ward off threats from outer space.

The TU-K team was comprised of Prof. Paul Baki, Dr. Willice Obonyo, Calvince Juma (Msc student), and undergraduate students Rashid Shishia and Vincent Okoth. They observed the asteroid using a 40cm telescope, together with a team from the University of Edinburgh, United Kingdom. The impact of the NASA mission with the asteroid impact took place when the asteroid system was over the Indian Ocean. Numerous publications on this test are currently under active consideration for publication in Nature.

For more information visit the NASA website: <https://www.nasa.gov/planetarydefense/dart/dart-news/>

# Animal Fat Used to Make Soap



*Billy Ojuka (from left), Elisha Malaha, Gloria Chumo and Faith Maluki in the laboratory*



*Billy Ojuka (left), Elisha Malaha displays soap products,*

Final year Biotechnology students explored the production of hard soap using animal fat and cooking oil through a process called saponification. This is the reaction of oils and fats using sodium hydroxide.

The team which include Billy Ojuka, Elisha Malaha, Faith Maluki and Gloria Chumo focused on making the soap product as cheap as possible. The process they employed is aimed at reducing effects of synthetic additives on human

beings and environment, usually caused by industrially produced soaps.

The researchers also used natural additives like mint, moringa, aloe vera and lemon to achieve high scenting, and spinach sap, carrot sap and turmeric to give our soaps an attractive and natural coloring.

“We also incorporated honey into all our soap recipes as it also offers natural scenting but most importantly, it’s natural; offers moisturising properties

to the soap, a property that is achieved in the commercial soaps by a chemical compound called sodium lactate,” said Elisha Malaha.

Faith Maluki, a team member added; “We also used rice husks as our natural source of silica, which is an important component in soaps as it makes the soaps bulkier and more durable, a characteristic normally achieved in commercial soaps using a chemical compound called sodium silicate.”

# Students Hold Grapefruit Wine Experiment



*Tatiana Nyasangare admires grapefruit wine.*

Biotechnology students have explored the processing of grapefruit wine locally in bid to demonstrate feasibility of farming grape fruit in Kenya.

“The Grapefruit wine is less exploited in the food and beverage process industry in Kenya owing to importation costs. We therefore want to research on viability of grapefruit wine and farming of the fruit locally, this of course looking at other economical and climatic conditions,” said Tatiana Nyasangare.

Other team members include Mohammed Jawaa, Eunice Opisa and Mary Nduta.

The wine product contains secondary metabolites like saponins, tannins and terpenoids as well as carbohydrates.



# Germany Envoy gifts Chemistry Department Sh.2M Microwave

His Excellency Sebastian Groth, Ambassador of the Federal Republic of Germany to Kenya, recently handed over a Discover 2.0 Microwave Synthesizer to the School of Chemistry and Material Science. The equipment worth more than KSh2 million, was purchased through funding from the German Federal Ministry of Education and Research in partnership with the German Federal Foreign Office.

The Ambassador presented the equipment to Prof. Paul Shiundu, DVC Academic and Student Affairs who represented the Vice-Chancellor, Prof. Francis Aduol.

Also present were Prof. Alfred Orina, DVC, Research and Technology Development, Prof. Paul Mwanzia Wambua, DVC, Institutional Advancement and Enterprise, Prof. Francis Gatheri, Executive Dean, Faculty of Applied Sciences and Technology, Dr. Geoffrey Otieno, Director, School of Chemistry and Material Science and Dr. Lucy Ombaka, Lecturer, School of Chemistry and Material Science.

The equipment was purchased, following Dr. Lucy Ombaka's 4 year post-doctoral studies, under the Alexander von Humboldt Georg Forster Postdoctoral Research Fellowship. She wrote a competitive proposal for instrument subsidy, which was successful.

Subsequently, the funding was used to purchase the Discover 2.0 Microwave Synthesizer, a high-performance equipment used to synthesize inorganic and organic compounds such as nano particles with precision, high yields, short reaction times and high productivity.

The Ambassador congratulated Dr. Ombaka for this achievement and for championing Women in Science. He further encouraged her to continue using her success stories to help more women to develop interest in sciences.

Prof. Shiundu said for the Alexander Von Humboldt Foundation to train Dr. Ombaka and provide the equipment to support her research activities, TU-K was greatly indebted to the Foundation.

"The equipment will not only be useful to her as a person, but will also be used



*His Excellency Ambassador Sebastian Groth, looks on as a technical academic staff uses the Microwave synthesizer.*

by students and staff in advancing their research activities," he said.

Prof. Orina said TU-K was in need of equipment support, as a result, staff will work closely with industry to enhance research and capacity building. He also thanked the Germany Government for providing post-doctoral training support, especially in providing the form of equipment support that helps scholars in their academic research activities.

Prof. Mwanzia on his part said the institution will work closely with partners to ensure continuous mutually beneficial

**"TU-K is still a young university in need of equipment support, as a result, staff will work closely with industry to enhance research and capacity building."**  
– Prof. Orina

collaborative research. He also thanked the Germany Government for supporting universities through the DAAD programmes that not only enhances academic staff capacity building but also exposes them to the latest technologies in their field of study.

Dr. Ombaka said she was grateful to German Federal Ministry of Education and Research that funds the Alexander Von Humboldt Foundation - Georg Foster Research Award. She added that with this engagement, she hopes they would further collaborate with other partners in order to secure more funding to upgrade the equipment in the labs and also continue with research in the areas of green energy.

Dr. Ombaka attended her post-doctoral studies at University of Hannover, mainly focused on Renewable Energy, specifically on the production of Green Hydrogen. She holds a PhD in Chemistry from University of Kwazulu Natal, South Africa.

# Design Students Showcase Projects



*The Vice-Chancellor, Prof. Francis Aduol being shown digitized project models by postgraduate students Ester Kute, and Mr. Emman Kianga.*

Innovative and brilliant project designs were showcased in an art exhibition organised by the School of Creative Arts and Media.

The exhibition saw final year undergraduate and postgraduate students from various fields of specializations including, Environmental Design, Communication Design, Interactive Media Design and Product Design, exhibit their projects .

Activities lined up for the day included project presentations, a presentation of game board and video games developed in partnership with University of Applied Sciences Augsburg, Germany, among other presentations.

The exhibition was graced by the Vice-Chancellor, Prof. Francis Aduol, who appreciated the creativity of the students noting that the school had done a great job in nurturing talent and maintaining strong partnerships.

“You have had the opportunity to partner with other universities and this is what universities are about. When you get the chance to see what other students are engaged in, you find that you are doing the same thing and thus you develop confidence,” said Prof. Aduol.

He further encouraged both staff and students to pursue academic opportunities abroad and not shy away from seeking support from the University once they got such chances.

The VC urged the school to seek opportunities for expansion and growth so that it becomes recognized as the leading school of design in the country.

Prof. Aduol’s attention was especially drawn to an outstanding project of a foldable student chair concept by Mr. Reiny Elego, a Product Design student who made a prototype of a modern akala sandal using recycled waste materials.

“I was trying to reimagine lecture chairs you see in most universities, the design is monotonous. The main goal of the project was to try and help left-handed students also, and also make the chair lighter, because when student find a lecture room empty and have to go out hunting for chairs, you don’t want to walk around with a bulky chair,” said Mr. Elego.

“It will be fantastic to have something that you can fold and carry as a brief case. When we don’t want them in the classroom, we fold them and put them together for storage and when the term begins and we need to use them, we just make them accessible to any student,” said Prof. Aduol.

Other presentations showcased sustainable homes that could generate

**“The main goal of the project was to try and help left-handed students also, and also make the chair lighter, because when student find a lecture room empty and have to go out hunting for chairs, you don’t want to walk around with a bulky chair.” – Mr. Elego.**

and manage their energy, clean water, food and waste. Another team showcased a logo designed for a non-governmental institution while another designed a museum that showcased the experiences of different countries during the Covid-19 pandemic and the different responsive measures taken to cope. There were animations to create awareness of mental health, a mobile app dubbed “TUKO NDANI” to help student easily access information and services from the University.

Students who partnered with the University of Applied Sciences Augsburg, Germany, developed a board game named “Hawker Malimali”, as well as video games dubbed “Hawker 101” and ‘Brikicho” that depict Kenyan Culture. Both games are to be showcased at Documenta Fifteen in Kassel, Germany, in an attempt to visualize the experience of the Kenyan culture through mobile gaming technology.

The prototype game boards were presented by postgraduate students, Ester Kute and Mr. Emman Kianga, with support from their undergraduate counterparts.

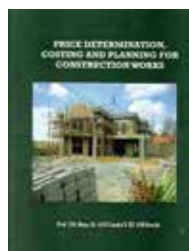
Brikicho is an urban version of the hide and seek game with a Kenyan inspiration.

Dr. Mary Clare Kidenda, the Academic Team Leader, Department of Design and Creative Media, said she was very proud of her students who also participated in writing the book “Collective Memory” that has since been published abroad.

Also present were Prof. Peter Matu, Executive Dean, Faculty of Social Sciences and Prof. Odoch Pido, Director, School of Creative Arts and Media.



# Dons Publish Quantity Surveying Books



**Title:** Price Determination, Costing and Planning for Construction works  
**Authors:** Sylvester Masu, Absalom Lamka and Harriet Kariuki  
**Year:** 2022



*Prof. Sylvester Masu*



*Dr. Absalom Lamka*



*Ms Harriet Kariuki*

The book titled “Price Determination, Costing and Planning for Construction Work” is about quantity surveying and construction management has been published. This is the first time such a book has been published in Kenya and by Kenyans. It is authored by Prof. Sylvester Masu, Dr. Absalom Lamka and Ms Harriet Kariuki who are all members of faculty at The Technical University of Kenya.

This book covers the main pricing approaches, as well as useful information such as how to build unit rates for various trades, computations of fluctuations in contracts and preparations of construction programmes. It also contains worked examples with easy-to-follow steps.

The book mainly aims at meeting the needs of students studying

Estimation and costing in quantity surveying, construction management, architecture, building construction and civil engineering at degree and diploma levels.

Pricing examples in this book closely follows the principle outlined

**The book aims at meeting the needs of students studying Estimating and Costing in Quantity Surveying, Construction Management, Architecture, Building Construction and Civil Engineering degrees and diplomas.**

**– Prof. Sylvester Masu**

in SMM of Building and Associated Civil Works for Eastern Africa.

Sylvester Masu is a professor of Quantity Surveying and Construction Management, with over 43 years’ experience in practice as a professional quantity surveyor and over 37 years teaching experience at graduate and postgraduate level.

Dr. Absalom Lamka is a lecturer in the department of Construction Economics and Management. Has also been a longterm senior examiner with Kenya National Examinations Council (KNEC) in construction management, measurement and costing of construction works for more than 30 years while Ms Harriet Kariuki is a registered Quantity Surveyor and a lecturer at TU-K.



**Title:** Measurements of Building and Civil Engineering Works Demystified  
**Authors:** Sylvester Masu and Absalom Lamka  
**Year:** 2022



*Prof. Sylvester Masu*



*Dr. Absalom Lamka*

This book titled Measurements of Building and Civil Engineering Works Demystified, aims at bridging the gap that has been noted in existing published books for measurement both in building and civil engineering works in Eastern Africa.

According to the authors, the book is intended to meet the needs of students studying measurements in Quantity Surveying, Construction Management and

Civil Engineering at undergraduate level.

The book contains 22 carefully worked out examples in building and civil engineering covering the essential principles of measurements with reference clauses and work classification from the relevant standard methods of measurement.

The book has been written to conform to the SMM of building and associated

civil Works for Eastern Africa and CESMM4. The worked examples illustrate the practical application of measuring work in accordance to the two standards.

The book is co-authored by Sylvester Masu and Absalom Lamka. Prof. Masu is currently the Director, School of Construction and Property Studies and an independent consultant in Quantity Surveying, Construction Management and Dispute Resolution while Dr. Lamka is the Academic Team Leader and Lecturer, Department of Construction Economics and Management at the Technical University of Kenya.

# Architecture Students Parade impressive Live Models

Every year in TU-K, second year Diploma in Technology students undertaking Design Studio course are assigned a live project. At the core of this Design Studio is a focus on the application of innovative architectural technologies on an actual project with the aim of exposing students to responsive design in view of client requirements, site-specific conditions and construction technology.

In this regard, the 2022 class embarked on a Multi-purpose Hall design proposal for Jengana Hope Center - a non-profit UK charity organization that has its main operations domiciled in Kenya. Since 2012, Jengana has been keen on developing a self-sustaining relief Centre at 6-acre project site in Kamangu, Kikuyu Sub-County, Kiambu County. Some of the client-specific requirements for the current project include affordability and a rustic design approach.

The Project began with 13 students who successfully participated in the initial stage which included preliminary studies, a site visit, site analysis and initial design proposals developed in Term 3 of the just concluded academic year. The design proposals were assessed during the End-of-Year pin-up in early October, and eventually five design proposals were selected for the presentation to the client representative - Arch. Patrick Ngetho.

The Jengana representative had previously approached TU-K School of Architecture, seeking a proposal of an affordable and sustainable hall. Their



*An architecture student explaining his work model to academic staff member and other students.*

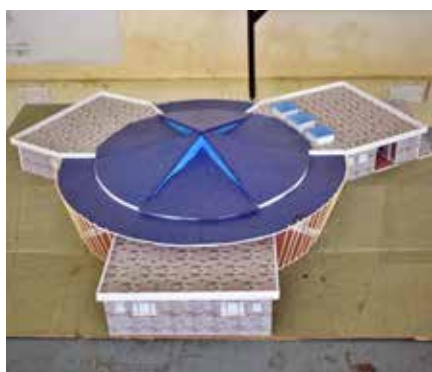
intention was to find a multipurpose hall design that can serve different occasions including dining, indoor sports, library or even be rented out for other occasions. Arch. Patrick Ngetho was present to review the students floor plan and miniature models.

During the exhibition each student was given the opportunity to put their work on display and explain how they came about their ideas starting with the initial floor plan drawings to the measurement of the building, sitting

**Each student was given the opportunity to put their work on display and explain how they came about their ideas.**

arrangements even the smallest details as the pavements, windows, entrances, reception, plantations outside and many other details.

All the showcased models looked good but the experts in the room had some corrections to make and advice to give to the students. The participating students were issued with certificates during presentation to the client which was held on Wednesday 26<sup>th</sup> October, 2022. This also marked the beginning of the next part of the project which will entail further design development in a collaborative approach and in close liaison with the client towards the production of the final scheme design and working drawings for building approval submissions. The project implementation on-site is expected to commence in 2023.



*Live Model of a Hall*



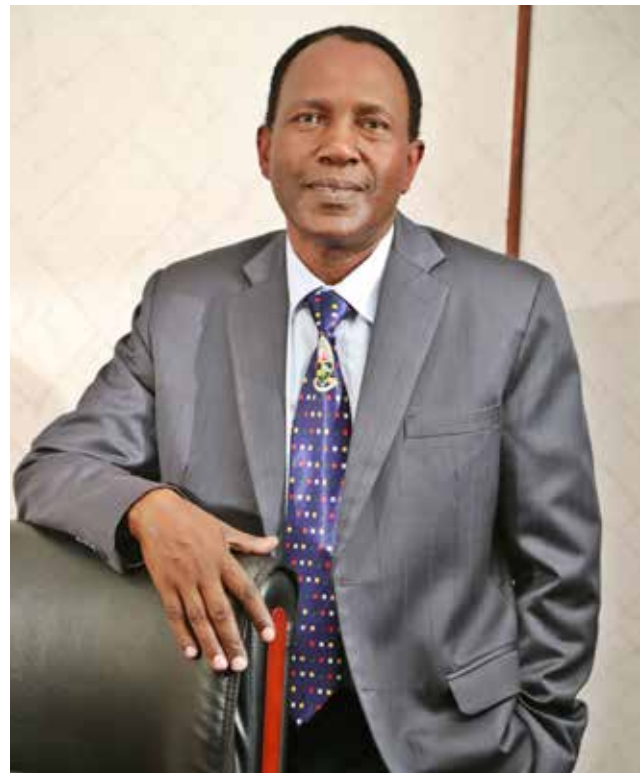
*Members of the School of Architecture pose for a picture with students, flanked by Mr. Patrick Ngetho, from the Jengana Association (6<sup>th</sup> from right).*



# TU-K Council Appoints Two DVCs



*Prof. Alfred Orina, Ph.D*



*Prof. Paul Wambua, Ph.D*

Two deputy vice-chancellors have been appointed at The Technical University of Kenya. The news was broken by the Vice-Chancellor, Prof. Francis Aduol, through a memo to staff and students dated August 1, 2022.

“We would like to notify the entire University staff and students that the process of appointing two (2) of the Deputy Vice-Chancellors has been concluded in exercise of The provisions of Section 35(1)(a)(v) of the Universities Act, No.42 of 2012 (amended in 2018),” said the VC.

The two DVCs are: Prof. Alfred Orina Isaac appointed as Deputy Vice-Chancellor, Research and Technology Development and Prof. Paul Mwanzia Wambua who has been appointed Deputy Vice-Chancellor (DVC), Institutional Advancement and Enterprise. Until his appointment, Prof. Orina had been the Director at the School of Health and Biomedical Sciences. He is also a Professor in the Department of Pharmaceutical Sciences and Technology.

Prof. Orina holds PhD in Pharmaceutical Science from Idaho State University, USA, Master of Science in Biochemistry and Molecular Biology and Bachelor of

Science in Chemistry and Biochemistry from Egerton University. Previously he served as a Postdoctoral Research Associate Scientist (Neuroscience) at Case Western Reserve University Medical Centre and University Hospital and as Research Assistant at the College of Pharmacy, Idaho State University, USA.

Prof. Orina has published 58 papers in peer reviewed journals and has successfully supervised 15 MSc and PhD students. He has one patent and one Utility Model under review. He is a member of Biochemical Society of Kenya

**“We would like to notify the entire University staff and students that the process of appointing two (2) of the Deputy Vice-Chancellors has been concluded in exercise of The provisions of Section 35(1) (a) (v) of the Universities Act, No.42 of 2012 (amended in 2018).”**

**– Prof. Francis Aduol**

and Society for Neuroscience.

Prof. (Eng.) Paul Wambua, is a Professor of Materials Engineering at Moi University’s School of Engineering. He holds a Doctor of Engineering degree from Katholieke Universiteit Leuven, Belgium, Master of Science in Textile Science and Engineering from the University of Leeds, UK and Bachelor of Science in Textile Engineering from University of Engineering and Technology, Lahore, Pakistan. Prof. Wambua has published two (2) books, one (1) book chapter and 35 papers in peer-reviewed journals and has been a reviewer of 20 journals. He has supervised 12 MSc and PhD students.

Previously, he served as Deputy Vice-Chancellor (Research, Technology Management and Community Linkages) at Dedan Kimathi University of Technology and Deputy Principal (Academic Affairs) at Kirinyaga University College. Between August 2011 and March 2013, Prof. Wambua was the Dean, School of Engineering at Moi University.

He is a registered Professional Engineer with the Engineers Board of Kenya and Fellow of the Institution of Engineers of Kenya.

# Dr. Idle Farah is the New Council Chair

Dr. Idle Omar Farah has been appointed the new Chairperson of Council of the Technical University of Kenya (TU-K). Other members recently appointed were Dr. Hassan Khannenje and Mr. Justin Kabuku.

The new appointees join other members of Council including: Ms. Isabella Kogei (representing the Cabinet Secretary for National Treasury and Planning), Dr. Angelina Awino Kinya, Hon. David Koech, Mr. Bernard Malenya and the Vice-Chancellor, Prof. Francis Aduol, who also serves as Council Secretary.



Dr. Idle Omar Farah



Mr. Justin Kabuku



Dr. Hassan Khannenje

# Prof. Micheni Appointed Acting DVC at Tom Mboya University



**From Left: Prof. Evans Sagwa, Academic Team Leader (ATL) Department of Business Administration and Entrepreneurship; Mrs. Florence Nyongesa, Ag. ATL, Economics and Resources Management; Dr. Phares Ochola, ATL Management Science and Technology; Prof. Elyjoy Micheni, Outgoing Director, School of Business and Management Studies (SBMS); Prof. Peter Maina Matu, Executive Dean, Faculty of Social Sciences and Technology (FSST); Prof. Collins Miruka, incoming Director SBMS; Ms. Rose Mathenge, Senior Assistant Registrar, SBMS; Dr. Stanley Kirika, ATL Department of Accounting and Finance and Mrs. Ann Lesan Kirui, Senior Assistant Registrar, FSST**

Prof. Elyjoy Muthoni Micheni has been appointed Deputy Vice-Chancellor, Academic, Research and Students' Affairs at Tom Mboya University. Initially, Prof. Micheni was initially appointed Deputy Principal, but when the institution was chartered, she was appointed to act as DVC. Prof. Micheni had served as TU-K's Director, School of Business and Management Studies (SBMS) for 7 years. She officially handed over the Directorship of the School to Prof. Collins Miruka in a ceremony that was attended by the Executive Dean, Faculty of Social

Sciences and Technology, Prof. Peter Matu, and other academic and administrative staff from the Faculty.

During Prof. Micheni's tenure, the School has grown in the number of Departments, programmes, staff and student population, including PhD enrolment. The School has also been holding annual a SBMS Students' Business Day organised through the Association of Business Students with a view to enhancing the employability prospects of students.



Prof. Elyjoy Micheni



# Council Appoints Professors

Richard Makopondo has been promoted to the rank of Professor of Leisure, Hospitality and Tourism Studies. He is the Director School of Hospitality and Human Ecology. Until his recent promotion, Prof. Makopondo was an Associate Professor in the Department of Hospitality and Tourism Studies. He holds a PhD in Leisure Studies from the University of Illinois at Urbana-Champaign, USA, MA in Recreation and Leisure Studies

from University of Waterloo, Canada, Bachelor of Science in Hospitality Management (Florida International University, Miami, USA and a Diploma in Hotel Management from Kenya Utalii College.

Prof. Makopondo is a Canon National Parks Scholar and an accomplished educator, trainer, researcher and consultant with international exposure in the fields of leisure, hospitality and tourism development and management.



**Prof. Richard Makopondo**



**Prof. Vincent Ongore**

Dr. Vincent Ongore has been promoted to the rank of an Associate Professor in the Department of Business Administration and Entrepreneurship. Until his promotion, Dr. Ongore was a Senior Lecturer in the same Department. He holds a PhD in Strategic Management, Master's in Strategic Management and Finance, both from the University of Nairobi; and a Bachelor's in Economics and Business Studies from Kenyatta University.

Prof. Ongore has over 2000 Google Scholar citations. He has also published four University-level textbooks, edited two book chapters, published 24 high impact articles in refereed journals, and supervised 25 Master's projects and 1 PhD thesis to completion. Others are ongoing.

In addition, he has been a Visiting Scholar to a number of international institutions including Münster University (Germany), University of Colorado Boulder (USA) and Daniel's College of Business, University of Denver

(USA).

Prof. Ongore has vast experience in senior management having held various positions including 3 decades at KRA as a Chief Manager (Formerly Deputy Commissioner) and Head of Research, Quality Assurance and Risk Management.

He was a founding Director of the ICPAK Centre for Public Finance and Tax; member of the Research Committee of the African Tax Administration Forum, the continental tax policy think tank based in Pretoria, South Africa. Prof. Ongore was the founding Editor-in-Chief of African Tax and Custom Journal.

In his area of research specialisation "Ownership Structure and Firm Performance", Prof. Ongore is ranked at position 3 globally. His outstanding achievements include good Google Scholar citations profile and global visibility in scholarship. He has also been named among the top 100 Scholars in Kenya (*European Union project Acumen, 15<sup>th</sup> March 2015*).

# French Language Teaching Assistants Posted to TU-K

Alan El Rhoul has been posted to the Technical University of Kenya as a French Language Assistant. He is on seven-month exchange programme between the Governments of France and Kenya that allows University students and professionals to travel abroad to teach France or English.

Alan is a passionate foreign languages learner having taught English to students training in Advanced Technician Certificate in Construction and Public Works. He is well conversant with French language, English and Spanish.

He holds a Master of Research in Linguistics from the University Michel

de Montaigne (Bordeaux III), France, Bachelor in Social Anthropology from University Victor Segalen (Bordeaux II), France, Bachelor of Arts in Anglo-American Studies from University Michel de Montaigne (Bordeaux III) and a Certificate in Archeology, Art and Architecture History from University of La Rochelle.

Alan has previously taught English at professional Training Centre, Greta-CFA Léonard de Vinci in France. He has also served in several occasions as a high school, monitor at the French Department of Education at Vocational High School Léonard de Vinci.



Alan El Rhoul



Aude Sellier

Aude Sellier has been posted to the Technical University of Kenya as a French Language Assistant. Aude is on a six-month exchange programme between the Governments of France and Kenya that allows University students and professionals to travel abroad to teach France or English.

Aude was the head of French exams at French-Omani Centre in Oman where she helped plan and implement TEF et DELF-DALF examination sessions and post-examination activities. She has also taught French as a foreign language and for specific purposes at French-Omani Centre, Oman, as well as taught

French at the General Obiang Military School in Equatorial Guinea. Aude has also helped create lesson plans as part of future French teachers' training at the University of Craiova, Voltaire High School & Primary Schools in Romania as well as taught French at Wabash College, United States.

Aude holds a Master's Degree in French as a Foreign Language Didactics from Université de Pau et des Pays de l'Adour and Bachelor's degree in Psychology from Université Bordeaux Segalen.

She is interested in foreign cultures and languages, sustainability, farming, circus arts and photography.



Ms. Eva Plaziat (right), Manager of Campus France, French Embassy in Nairobi taking the students through scholarship opportunities in French universities. She was accompanied by French Language Assitantants Aude Sellier (from left) Alan El Rhoul, Prof. Faustine Ondore and Aude and Director, Institutional Advancement and Development Bernard Lusuli



# Microsoft in Talent Search at TU-K



Guests from Microsoft Africa Development Centre with students. They shared a host of opportunities the students could benefit from including the Microsoft Student Ambassador Programme, internship opportunities among others. Microsoft is looking out to train, equip and hire engineering talent in Africa to contribute to the development of Microsoft products that are in use by over 1 billion devices.



# TU-K Welfare Conducts Medical Camp



The Technical University of Kenya Welfare Association, in collaboration with Lions Eye Hospital and the University Health and Wellness Services, conducted a medical camp at the University compound. The one-day medical camp focused on eye clinic, blood pressure and diabetic examination. More than 500 students and staff were examined. TU-K Welfare Chairman, Moses Mulati, said the welfare is looking for other partners to conduct medical clinics on cancer, heart and general medical examinations.



## New York Varsity Professor Fired After Students Said Course Was 'Too Hard'

Professor fired for “failing” students at N.Y.U., Students Were Failing Organic Chemistry. Who Was to Blame?

Maitland Jones Jr., a respected professor, defended his standards. But students started a petition, and the university dismissed him.

Students said Maitland Jones's course was too hard and blamed him and his teaching methods for their poor showings.

In the field of organic chemistry, Maitland Jones Jr. has a storied reputation. He taught the subject for decades, first at Princeton and then at New York University, and wrote an influential textbook. He received awards for his teaching, as well as recognition as one of N.Y.U.'s coolest professors.

But last spring, as the campus emerged from pandemic restrictions, 82 of his 350 students signed a petition against him.

Students said the high-stakes course — notorious for ending many a dream of medical school — was too hard, blaming Dr. Jones for their poor test scores.

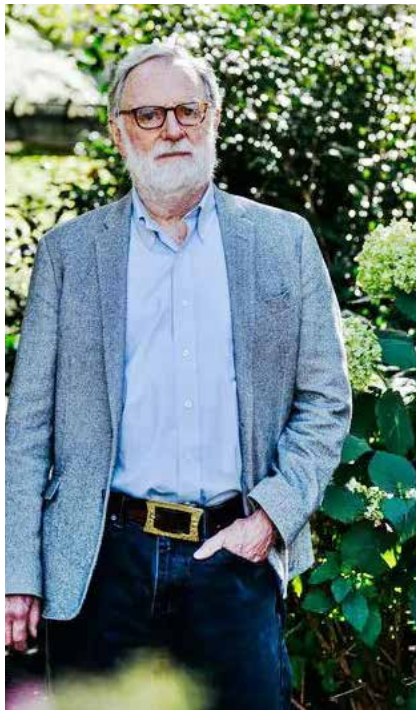
The professor defended his standards. But just before the start of the fall semester, university deans terminated Dr. Jones's contract.

The officials also had tried to placate the students by offering to review their grades and allowing them to withdraw from the class retroactively. The chemistry department's chairman, Mark E. Tuckerman, said the unusual offer to withdraw was a “one-time exception granted to students by the dean of the college.”

Marc A. Walters, director of undergraduate studies in the chemistry department, summed up the situation in an email to Dr. Jones, before his firing.

He said the plan would “extend a gentle but firm hand to the students and those who pay the tuition bills,” an apparent reference to parents. The university's handling of the petition provoked equal and opposite reactions from both the chemistry faculty, who protested the decisions, and pro-Jones students, who sent glowing letters of endorsement.

“The deans are obviously going for some bottom line, and they want happy students who are saying great things



**Professor Maitland Jones**

about the university so more people apply and the U.S. News rankings keep going higher,” said Paramjit Arora, a chemistry professor who has worked closely with Dr. Jones.

University officials tried to placate the students, even allowing them to withdraw from the class retroactively, a highly unusual step.

In short, this one unhappy chemistry class could be a case study of the pressures on higher education as it tries to handle its Gen-Z student body. Should universities ease pressure on students, many of whom are still coping with the pandemic's effects on their mental health and schooling? How should universities respond to the increasing number of complaints by students against professors? Do students have too much power over contract faculty members, who do not have the protections of tenure?

And how hard should organic chemistry be anyway?

Dr. Jones, 84, is known for changing the way the subject is taught. In addition to writing the 1,300-page textbook “Organic Chemistry,” now in its fifth edition, he pioneered a new method of instruction that relied less on note memorization and

more on problem solving.

After retiring from Princeton in 2007, he taught organic chemistry at N.Y.U. on a series of yearly contracts. About a decade ago, he said in an interview, he noticed a loss of focus among the students, even as more of them enrolled in his class, hoping to pursue medical careers.

“Students were misreading exam questions at an astonishing rate,” he wrote in a grievance to the university, protesting his termination. Grades fell even as he reduced the difficulty of his exams.

The problem was exacerbated by the pandemic, he said. “In the last two years, they fell off a cliff,” he wrote. “We now see single digit scores and even zeros.”

After several years of Covid learning loss, the students not only didn't study, they didn't seem to know how to study, Dr. Jones said.

To ease pandemic stress, Dr. Jones and two other professors taped 52 organic chemistry lectures. Dr. Jones said that he personally paid more than \$5,000 for the videos and that they are still used by the university.

That was not enough. In 2020, some 30 students out of 475 filed a petition asking for more help, said Dr. Arora, who taught that class with Dr. Jones. “They were really struggling,” he explained. “They didn't have good internet coverage at home. All sorts of things.”

The professors assuaged the students in an online town-hall meeting, Dr. Arora said.

Many students were having other problems. Kent Kirshenbaum, another chemistry professor at N.Y.U., said he discovered cheating during online tests.

When he pushed students' grades down, noting the egregious misconduct, he said they protested that “they were not given grades that would allow them to get into medical school.”

By spring 2022, the university was returning with fewer Covid restrictions, but the anxiety continued and students seemed disengaged.

“They weren't coming to class, that's for sure, because I can count the house,” Dr. Jones said in an interview. “They weren't watching the videos, and they



weren't able to answer the questions."

Dr. Jones said that after two years of pandemic learning loss, students not only didn't study: They seemed to not know how to study. Students could choose between two sections, one focused on problem solving, the other on traditional lectures. Students in both sections shared problems on a GroupMe chat and began venting about the class. Those texts kick-started the petition, submitted in May.

"We are very concerned about our scores, and find that they are not an accurate reflection of the time and effort put into this class," the petition said.

The students criticized Dr. Jones's decision to reduce the number of midterm exams from three to two, flattening their chances to compensate for low grades. They said that he had tried to conceal course averages, did not offer extra credit

and removed Zoom access to his lectures, even though some students had Covid. And, they said, he had a "condescending and demanding" tone.

"We urge you to realize," the petition said, "that a class with such a high percentage of withdrawals and low grades has failed to make students' learning and well-being a priority and reflects poorly on the chemistry department as well as the institution as a whole."

Dr. Jones said in an interview that he reduced the number of exams because the university scheduled the first test date after six classes, which was too soon.

On the accusation that he concealed course averages, Dr. Jones said that they were impossible to provide because 25 percent of the grade relied on lab scores and a final lab test, but that students were otherwise aware of their grades.

As for Zoom access, he said the technology in the lecture hall made it impossible to record his white board problems.

"This is a big lecture course, and it also has the reputation of being a weed-out class," said Mr. Xue, who has transferred and is now a junior at Brown. "So there are people who will not get the best grades. Some of the comments might have been very heavily influenced by what grade students have gotten."

Other students, though, seemed shellshocked from the experience. In interviews, several of them said that Dr. Jones was keen to help students who asked questions, but that he could also be sarcastic and downbeat about the class's poor performance.

*This article was first published in New York Times by Stephanie Saul.*

## Germany Agency to Sponsor Students, Staff for Research



*Dr. Antje Vollmer (5<sup>th</sup> left) poses for a picture with staff and students after conducting a workshop at the Lecturer Theatre.*

German-based Radiation facility is set to sponsor students and staff in Berlin for research and hands-on experience, Dr. Antje Vollmer from BESSY II announced.

Dr. Vollmer was speaking during a synchrotron radiation source BESSY II workshop research for the international science community at TU-K.

BESSY II is dedicated to soft X-ray regime, experiments using infrared radiation on low energy and tender or hard X-rays.

BESSY II offers a broad variety of research options for the international scientific community, this ranging from; photovoltaics, chemical energy conversion, batteries to quantum materials, information technology



Dr. Antje Vollmer

The workshop was organised by Dr. Lucy Ombaka from the School of Chemistry.

Dr. Vollmer also discussed key enabler for developing solutions to the global challenges in societies including; progressing climate crisis, and the urgent need for sustainable, carbon-neutral

materials, biology, cultural heritage and medical research.

BESSY II also provides infrastructure for scientific projects.

energy.

"However, global problems have to be addressed globally; with international knowledge exchange, 'brain-circulation', and cooperation we can contribute to tackling global problems," Dr. Vollmer noted.

She added, "But more importantly, I would love to discuss the use of synchrotron radiation in the context of your research. At many instruments even remote experiments from your home institution, assisted by our beamline scientists on site, are possible."

Dr. Vollmer also gave a step-by-step tutorial on how to write a successful proposal for beamtime at BESSY II.

# TU-K Don Studies Malaria Vectors

Meet Dr. Susan Imbahale, a Senior Lecturer at the Department of Applied and Technical Biology, School of Biological and Life Sciences (SBLs). She is passionate about Research on mosquitoes, a move that has earned her national and global recognition. She remains a leading mind in research and training of scientists in the country.

According to her, malaria is a disease of poverty that drains families physically, emotionally and economically. Inspired by the fact that she could use her knowledge and skills to reduce human suffering, promote health and development, Dr. Imbahale continued studying malaria-causing mosquitoes—Anopheles—and the strategies for their control, after earning her PhD in medical entomology in 2009.

She has local and international experience, having worked in Kenya, Tanzania, Somali and Mozambique and on all occasions, focusing on building capacity on malaria vectors and their control. Recently, she had a chance of working with the Somali National Malaria Control Programme (NMCP) in building capacity on larval source management for malaria and dengue control.

“I am a medical entomologist with an ecological background and my research focuses on malaria vector biased on Mosquito Larval Source Management which simply means, strategies that control mosquito larvae (immature stages of mosquitoes),” she says and goes ahead to explain that she trains her students and society on rearing insects and controlling them.

She adds, “I work in the field interacting with community members while creating awareness on malaria in malaria endemic regions such as the western part of Kenya, where the most efficient vector *Anopheles gambiae* thrives. I am a strong believer in the fact that, ‘NO BREEDING SITES FOR MOSQUITOES MEANS NO MALARIA.’ Therefore, more efforts should be focused on elimination of breeding habitats.”

The don has been involved in several applied research studies which she says have shown that majority



*Collecting Mosquito Pupae in insectary*

of the mosquito breeding habitats are man-made. Mosquito rearing, she says, happens in its potential habitat where the larvae breed. Her effort is to discourage mosquitoes from breeding either biologically for instance if it is in a water point that a community relies on, by introducing a natural enemy like fish that will feed on the larvae. If the community is not using the water habitat, then breeding can be controlled chemically. She however discourages use of this method.

Dr. Imbahale’s research has had a positive impact on the society. She explains, “Ironically, majority of the people do not connect their activities to malaria transmission. My role has therefore been to create awareness within communities on how their activities encourage mosquito breeding and consequently malaria transmission. I have also had the opportunity to work

with pupils and students as agents of change to help increase awareness back home on mosquito and malaria control.”

Dr. Imbahale’s efforts have seen her get awarded a Research grant from Third World Academy of Sciences (TWAS). This has boosted her work by providing equipment that will be beneficial to Biology students at the Technical University of Kenya for many years to come. It further helped a staff member of TU-K, Mr. Mathew Sila, (her Master’s student), who graduated and was later promoted to a senior technologist.

Like any other researcher, she faces challenges. The main one she says, is that research donors are not fascinated by Applied research, many are focused on basic research and development of new products. On the other hand, mosquito control continues to rely heavily on chemicals through indoor residual spraying (IRS) and Long Lasting Insecticidal Treated Nets (LLINs). “Consequently, insecticide resistance in malaria vectors remains the greatest challenge we are facing. Another challenge is the limitation of space that has hindered construction of insectary for rearing insects,” she observes.

Dr. Imbahale obtained a BSc in Zoology and Chemistry in 2002, and an MSc in Biology of Conservation in 2004, both from the University of Nairobi. She

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**“I am a medical entomologist with an ecological background and my research focuses on malaria vector biased on Mosquito Larval Source Management.”**  
– Dr. Susan Imbahale





*Analysing Mosquito larvae*

did her PhD work at the Kenya Medical Research Institute in collaboration with the Wageningen University & Research, in Wageningen, the Netherlands.

From 2011 to 2015, she was a Project Manager with the International Centre for Insect Physiology and Ecology (ICIPE), in Nairobi, Kenya. Her major tasks were monitoring and controlling mosquitoes' populations, and raising awareness within the communities and schools living in the Nyabondo District of Kenya.

She talks about her future plans expounding, "I am keen on directing my energies on mentorship and giving psychosocial support to the girl child, since educating a girl means educating a village. Concerning research, in recent

years we have seen the emergence of new vector borne and zoonotic diseases. It is now time to broaden my research agenda to incorporate other vector borne diseases."

**Points to note:**

Mosquitoes cause about 219 million cases of malaria per year, and cause more than 400,000 deaths, especially among children under the age of five.

Kenya is heavily affected by mosquitoes of the genus Anopheles, which spread the malaria-causing parasite Plasmodium falciparum. According to the US Centers for Disease Control and Prevention, 3.5 million new clinical cases and 10,700 deaths each year are caused by these mosquitoes.

## Scientific Communication Lecture Held

The Faculty of Social Sciences and Technology's Center for Language and Communications Studies conducted a workshop on Effective Science Communication for Young Academics and Postgraduate students aimed at equipping experts with skills to effectively communicate scientific information to the general public. The workshop, held in May 2022 at Sarova Panafric Hotel, was graced by the Faculty's Executive Dean, Prof. P. M. Matu.

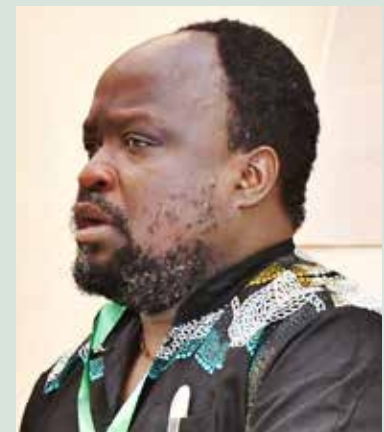
In his remarks, Prof. Matu emphasized on the need to break the experts' curse in society that denies the general public access to pertinent and useful information. The experts' curse, he said, is a curse of knowledge where an individual is so knowledgeable about his subject but is deficient in relaying/simplifying the same knowledge to non-experts.

"Academia abounds with geniuses like the poet Christopher Okigbo who famously quipped that he only wrote for poets. Consequently, while his literary works were critically acclaimed, the benefits therein were not accessible to the general public," he said.

He therefore emphasized that such a seminar, which is concerned with bridging the communication gap between scientists and the general public, is priceless.

"The Technical University of Kenya is a laboratory for scientific research and innovation. I am confident that this space will birth novel partnerships, new ideas and re-affirm a commitment to excellent academic practices for science communication," he concluded.

The Director, Center for Language and Communications Studies, Prof. Dr. Daniel Ochieng Orwenjo, said that scientific knowledge should



*Prof. Dr. Daniel Ochieng Orwenjo*

be shared because it contributes to the development of the economy. Additionally, it also wins public trust of a scientist's work while preventing alienation of specific scientific work/research from society.



*Participants during the workshop.*



# TU-K Staff Elected to KUPAA Top Organ



Participants during the National Kenya Universities Performing Arts and Film Association (KUPAA) workshop in Nakuru

By Michele Kogo

TU-K Dean of Students, Prof. Omondi Oketch and Mr. Patrick Ogutu, have been elected to the National Kenya Universities Performing Arts and Film Association (KUPAA). Prof. Oketch was elected as a representative of Kenya Universities Deans of Students Association (KUDSA) while Mr Ogutu was elected KUPAA Secretary General. Ogutu is the TU-K Music & Drama Club Patron and a Senior Technologist at the Department of Automation and Control Engineering.

The new team elected to the national association during KUPAA workshop held in Nakuru will serve for three years

beginning in January 2023. The meeting brought together representatives from the Ministry of Education, KUDSA and drama and music patrons.

Other officials elected to represent Drama include; Mr. Boniface Isalambo (Chairman), Pauline Njeru (Deputy Chair), Williat Anyika (Treasurer), Dr. Malachi Apudo (Organising Secretary) and Jenniffer Wanami (MoE Representative).

Officials elected to represent Music include; David Tamba (Chairperson), John Mutua (Deputy Chair), Caleb Nyangwono (Secretary General), Benson Ngobia (Treasurer), Christopher Wafula (Organizing Secretary), Eunice Wakofula (MoE Representative) and Dr. Victor

Boiyo (KUDSA Representative)

The elected team purposed to harmonise students activities management in Kenya including; drama, music, beauty pageant, film and fine art.

Principal Secretary, State Department for University Education, Amb. Simon Nabukwesi, who was the chief guest, committed to support the Association through financial allocation. Amb. Nabukwesi told the Association that talents in performing arts can be advanced and actualised as a source of income.

The meeting also approved a calendar of events and all activities to be conducted by KUPAA.

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## 4<sup>th</sup> Music and Drama Festival Held at JOOUST



Cabinet Secretary for Youth Affairs, Sports and Arts Ababu Namwamba (3<sup>rd</sup> right) with Kenya Universities Performing Arts and Film Association (KUPAA) officials during the closing ceremony of the 4<sup>th</sup> festivals at Jaramogi Oginga Odinga University of Science and Technology. The officials include TU-K Dean of Students, Prof. Omondi Oketch (2<sup>nd</sup> right) and Patrick Ogutu (4<sup>th</sup> right) who is the Secretary General of KUPAA and TU-K Music & Drama Club Patron.



# VC Attends ACU Meeting in London



*From left to right: Prof. Cheryl de la Rey, VC, University of Canterbury, New Zealand, and Chair ACU; Prof. Sir Hilary Beckles, VC, University of the West Indies; Prof. Francis Aduol, VC, The Technical University of Kenya; Prof. Wendy Thomson, VC, University of London; Prof. Abiodun Adebayo, VC, Covenant University, Nigeria; Ms Beth Button, an official at ACU Headquarters.*

The Vice-Chancellor, Professor Francis Aduol attended the 62<sup>nd</sup> meeting of the Council of the Association of the Commonwealth Universities. The meeting was held at the ACU headquarters in Woburn House, London. The VC participated in the meeting in his capacity as a Council member representing the Eastern Africa region.

ACU draws membership from more than 500 universities from across the Commonwealth countries.

Dr. Joana Newman is the Chief Executive Officer and the Chairman is Prof. Cheryl de la Rey who is also the Vice-Chancellor, University of Canterbury, New Zealand.

The Technical University of Kenya is an active member of the ACU and currently hosts the prestigious Queen Elizabeth Commonwealth Scholarship. Under the programme, the University has attracted postgraduate students from Uganda, Malawi and Nigeria respectively.

While in London, Prof. Aduol also had

engagements with partners and universities that TU-K has collaborations with. He held discussions with Prof. Washington Yotto, Head of Civil and Environmental Engineering at the Imperial College London and John Dubber the Chief Executive Officer of Student Union, University College London. At the University College London, a framework for student leaders exchange programme was established and will be piloted early 2023.

## Mutua, Kanyadudi Visit University of Paris, Saclay

Dr. Fredrick Mutua from the School of Mechanical and Manufacturing Engineering and Mr. Cosmas Kanyadudi, the Executive Officer in the Office of the Vice-Chancellor, joined 23 other participants from other universities across the world during a workshop held in October in Paris, France. The Technical University of Kenya in partnership with the University of Paris, Saclay (UPS) has been implementing a European Union Erasmus+ Project since 2019.

Under the programme, the two members of staff visited the University of Paris Saclay as part of the staff exchange module. They shared experiences and followed presentations on a wide range of topics including management of incoming and outgoing scholars, championing collaborative research among partner universities, the central place of digital media in the current academic environment and increasing resources for students' global mobility.

The programme includes collaborative



**Mr. Cosmas Kanyadudi speaks**

research, curriculum design and delivery, joint training as well as student and staff exchanges. The project has seen the TU-K set up a state of the art robotics workshop in Q-Block. Staff and students have benefited from the training at both TU-K and in Paris conducted by the lecturers from the University of Paris Saclay.

The participants had an opportunity to tour research and teaching facilities of the UPS. Of key interest was the new establishment of Politech, Paris Saclay, an institute dedicated to TVET within



**Dr. Fredrick Mutua makes a point**

the University of Paris Saclay. TU-K has been working on modalities to establish a similar facility. During the recent visit by the President to the institution, H. E. Hon. William Ruto affirmed the Government's intention and commitment to support the development of the TU-K TVET College as proposed. Council has already initiated plans to commence the construction of the college. The partnership between the two institutions, TU-K and UPS will go a long way in nurturing the envisioned college.



Ministry of Interior and Coordination of National Government  
Directorate of National Cohesion and Values



## NATIONAL VALUES AND PRINCIPLES OF GOVERNANCE

National Values and Principles of Governance are the fundamental beliefs of our nation, guiding the choices, actions and behaviour of all Kenyans.

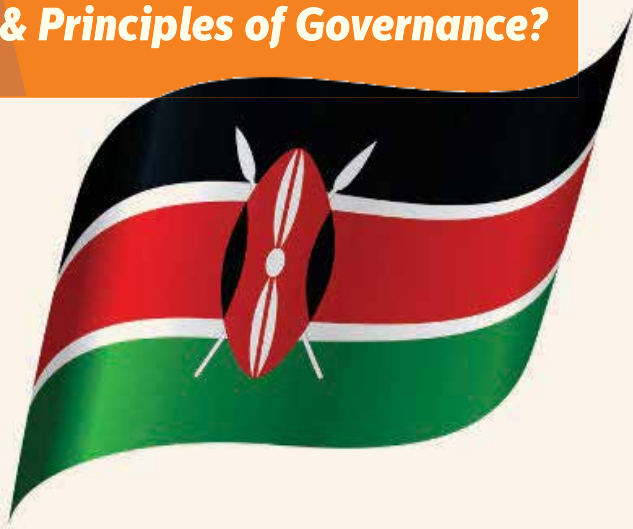
BECAUSE  
**KENYANS** HAVE  
RIGHTS AND  
RESPONSIBILITIES



Our Values, Our Heritage, Our Destiny



## Why the Promotion of National Values & Principles of Governance?



Promotion of the National Values and Principles of Governance will achieve the necessary socio-cultural, economic and political transformation that is key to the timely realization of the country's development agenda

## What are the National Values and Principles of Governance?

Article 10 of the Constitution outlines the following as the National Values and Principles of Governance:

- 1) **Patriotism** - Loyalty to, love for, pride in my country.
- 2) **National unity** - working together in harmony for the realization of common goals.
- 3) **Sharing and devolution of power** - A system in which resources and power are distributed between and among the national and county level governments.
- 4) **The rule of law** - Adherence to the law by all persons.
- 5) **Democracy and participation of the people** - Active involvement of people in decision making on matters that affect them.
- 6) **Human dignity** - respect and ethical treatment for every human being.
- 7) **Equity** - The quality of being reasonable, fair, impartial and just in all decisions and actions.
- 8) **Social justice** - fair provision and access to essential services, opportunities, and privileges within a society.
- 9) **Inclusiveness** - Affording all persons an opportunity to participate in community activities that affect their lives.
- 10) **Equality** - Treatment of everyone with the same measure irrespective of their status such as gender, religion, social class, tribe or race.
- 11) **Human rights** - They are the basic rights and freedoms that are entitled to every person.
- 12) **Non-discrimination** - Treatment of people without bias irrespective of their diversities.
- 13) **Protection of the marginalized** - Safeguarding the interests of the disadvantaged.
- 14) **Good governance** - Having systems and structures through which the exercise of power and authority can be controlled or held to account.
- 15) **Integrity** - Consistently doing what is right regardless of the circumstances.

- 16) **Transparency and accountability** - Transparency is openness and sharing of timely and accurate information. Accountability is taking responsibility for one's actions and decisions.
- 17) **Sustainable development** - A pattern of resource use that aims to meet the needs of the present without compromising the ability of future generations to meet their needs.

### What are the benefits of National Values & Principles of Governance?

- National values create a strong sense of belonging, pride and national identity.
- National values promote harmonious coexistence among diverse groups in society.
- The values contribute to effective representation and development of virtuous leadership.
- The values lead to equitable allocation of resources and opportunities at national and county levels reducing socio-economic inequalities.
- The values promote and protect human rights and fundamental freedoms for all.
- The values enhance promotion of open, accountable and participatory management of public resources.
- The values guarantee availability of resources and opportunities for future generations.



**Uraia**  
Kenya's National Civic Education Programme

Ministry of Interior and Coordination of National Government  
Directorate of National Cohesion and Values  
Extelcoms House, 5th, 9th & 10th Floors, Haile Selassie Avenue  
P.O Box 30510 – 00100 NAIROBI  
Mobile: 0758948706/ 0712382871  
Website: [www.cohesionandvalues.go.ke](http://www.cohesionandvalues.go.ke)  
Email: [nationalvalues2017@gmail.com](mailto:nationalvalues2017@gmail.com)  
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# THE TECHNICAL UNIVERSITY OF KENYA

## MODULE II PROGRAMMES UNDERGRADUATE AND DIPLOMA

STARTING **JULY** 2022



**T**HE Technical University of Kenya (TU-K) is the leading university in technological education and training in Kenya. The University was awarded a Charter in 2013, making it a fully-fledged public university. The University specialises in training at the Postgraduate, Undergraduate and Diploma levels, while at the same time engaging in research. It has a clear student upward movement policy, which makes it easy for students to move from one level of training to the next, and recognise prior training by awarding students credit transfers. The University has developed and implemented a digitised and completely paperless student applications process; from application to registration. Students are therefore, advised to make their applications on-line for the programmes listed below:

COURSE TITLE	REQUIREMENTS	DURATION
<b>FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT</b>		
<b>SCHOOL OF ARCHITECTURE AND SPATIAL PLANNING</b>		
Bachelor of Architectural Studies/ Bachelor of Architecture	• KCSE Mean Grade C+ (plus), with C+ in Mathematics, C+ in Physics, and C+ in English/ Kiswahili	4 years (BAS); 2 years (B. Arch.) Integrated
Diploma in Technology (Architecture)	• KCSE Mean Grade C, with C in Mathematics, C in Physics and C in English/Kiswahili	3 years (Integrated)
<b>SCHOOL OF AEROSPACE AND VEHICLE ENGINEERING</b>		
Bachelor of Engineering (Aeronautical Engineering)	• KCSE Mean Grade C+ (plus) with C+ (Plus) in Maths A, C+ (Plus) in Physics, C+ (Plus) in Chemistry and C+ (Plus) in Eng./Kis.	5 years (Integrated)
Diploma in Technology (Aeronautical Engineering Technology)	• KCSE Mean Grade C (plain) with C- (minus) in Maths A, C in Physics, C in Chemistry and C in Eng./Kis.	3 years (Integrated)
Diploma in Technology (Mechanical Engineering Technology): Automotive and Autotronic Engineering option	• KCSE Mean Grade C (plain) with C- (minus) in Maths A, C- (minus) in Physics, C- (minus) in Chemistry and C- (minus) in Eng./Kis.	3 years (Integrated)
<b>SCHOOL OF CHEMICAL AND BIOLOGICAL SYSTEM ENGINEERING</b>		
Bachelor of Engineering in Biosystems and Environmental Engineering	• KCSE Overall minimum mean grade C+ with Mathematics C+, Physics C+, Chemistry C+, Biology = C, English = C+ OR • A level Minimum 2 principals in Mathematics and Physics; Subsidiary in Chemistry; and Credit pass in English and Biology at O level	5 years (Integrated)
Bachelor of Engineering (Chemical Engineering)	• KCSE Mean Grade C+ (plus) with C+ (Plus) in Maths A, C+ (Plus) in Physics, C+ (Plus) in Chemistry and C+ (Plus) in Eng./Kis.	5 years (Integrated)
Bachelor of Engineering Technology (Chemical Engineering Technology)	• KCSE Mean Grade C- (Minus) and Diploma in Technology in Chemical Engineering Technology or equivalent	3 years (Part-time)
Diploma in Technology (Chemical Engineering Technology)	• KCSE Mean Grade C (Plain) with at least C- (minus) in Maths A, Physics, Chemistry and English/ Kiswahili	3 years (Integrated)

*Integrated programmes will be taught during the day on weekdays together with Government-sponsored students  
Part-time programmes will be taught in the evenings and on weekends*

COURSE TITLE	REQUIREMENTS	DURATION
<b>SCHOOL OF CONSTRUCTION AND PROPERTY STUDIES</b>		
Bachelor of Built Environment (Construction Management)	• KCSE Mean Grade C+ (plus), with C+ in Mathematics and C+ in Physics • Diploma in Technology in Quantity Surveying, Building Construction, Civil Engineering, Architecture with a credit pass and KCSE Mean Grade C- (Minus) OR • TEP Diploma in Building Construction, Civil Engineering, Architecture, Quantity Surveying or equivalent with at least 2 years relevant work experience, with a credit pass and Mean Grade C- (Minus)	4 years (Integrated programme) 3 years (Part-time)
Bachelor of Quantity Surveying	• KCSE Mean Grade C+ (plus), with C+ in Mathematics, C+ in Physics and C+ in English/ Kiswahili OR • Diploma in Quantity Survey, with a credit pass and KCSE Mean Grade C- (minus)	4 years (Integrated programme) 3 years (Part-time or Integrated)
Bachelor of Technology (Building Construction)	• KCSE Mean Grade C+ (plus), with C+ in Mathematics and C+ in Physics OR • KCSE Mean Grade C- (Minus) and Diploma in Technology in either: Building Technology, Civil Engineering, Quantity Surveying or Architecture or equivalent or TEP Diploma in the above areas with a Credit pass.	4 years (Integrated programme) 3 years (Part-time or evening)
Bachelor of Real Estate	• KCSE Mean Grade C+ (plus), with C+ in Mathematics and pass in Physics OR • KCSE Mean Grade C- (Minus) and Diploma in Technology in Real Estate or equivalent or TEP Diploma in the above areas,	4 years (Integrated programme) 3 years (for Diploma holders)
Diploma in Technology (Real Estate)	• KCSE Mean Grade C (Plain) together with at least C- (minus) in Maths and pass in Physics	3 years (Integrated programmes)
Diploma in Technology (Quantity Surveying)	• KCSE Mean Grade C (Plain) together with C (plain) in Maths, Physics and Eng./Kis.	
Diploma in Technology (Construction Management)	• KCSE Mean Grade C (Plain) together with C- (minus) in Maths, Physics and Eng./Kis.	
Diploma in Technology (Building Construction)	• KCSE Mean Grade C (Plain) together with C- (minus) in Maths, Physics and Eng./Kis.	

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COURSE TITLE	REQUIREMENTS	DURATION
<b>SCHOOL OF CIVIL AND RESOURCE ENGINEERING</b>		
Bachelor of Engineering (Civil Engineering)	• KCSE Mean Grade C+ (plus) with C+ (Plus) in Maths A, C+ (Plus) in Physics, C+ (Plus) in Chemistry and C+ (Plus) in Eng./Kis.	5 years (Integrated programme)
Bachelor of Engineering Technology (Civil Engineering)	• KCSE Mean Grade C- (Minus) and Diploma in Technology in either: Civil Engineering, Highway Engineering, Water Engineering, Building Construction or equivalent or TEP Diploma in the above areas,	3 years (Part-time)
Diploma in Technology (Civil Engineering)	• KCSE Mean Grade C (Plain) with at least C- (minus) in Maths, Physics, Chemistry and English/Kiswahili or • Certificate in Civil or Water Engineering, with KCSE Mean Grade D+	3 years (Integrated programme)
<b>SCHOOL OF ELECTRICAL AND ELECTRONIC ENGINEERING</b>		
Bachelor of Engineering (Electrical and Electronic Engineering)	• KCSE Mean Grade C+ (plus) with C+ (Plus) in Maths A, C+ (Plus) in Physics, C+ (Plus) in Chemistry and C+ (Plus) in Eng./Kis.	5 years (Integrated programme)
Bachelor of Engineering Technology (Electrical and Electronic Engineering Technology)	• Higher Diploma in Technology (Electrical and Electronic Engineering Technology) together with KCSE Mean Grade C- (Minus) • KCSE Mean Grade C- (Minus) and Diploma in Technology in Electrical and Electronic Engineering Technology or its equivalent recognised by senate of TU-K or TEP Diploma in the above disciplines.	3 years (Part-time)
Diploma in Technology (Electrical and Electronic Engineering)	• KCSE mean grade of C (Plain) with at least C (Plain) in Maths A, Physics, Chemistry and Eng/ Kisw	3 years (Integrated programme)
<b>SCHOOL OF MECHANICAL AND MANUFACTURING ENGINEERING</b>		
Bachelor of Engineering (Mechanical Engineering)	• KCSE Mean Grade C+ (plus) with C+ (Plus) in Maths A, C+ (Plus) in Physics, C+ (Plus) in Chemistry and C+ (Plus) in Eng./Kis.	5 years (Integrated programme)
Bachelor of Engineering Technology (Mechanical Engineering Technology)	• KCSE Mean Grade C- (Minus) and Diploma in Technology in Mechanical Engineering Technology OR • TEP Diploma in Mechanical Engineering or equivalent with at least 2 years relevant work experience, together with Mean Grade C- (Minus)	4 years (full-time) 3 years (Part-time)
Diploma in Technology (Mechanical Engineering Technology): • Manufacturing Engineering • Industrial Plant and Energy Engineering • Structural Fabrication and Metallurgical Engineering • Refrigeration and Air Conditioning Engineering: • Mechatronic Engineering	• KCSE Mean Grade C (Plain) with at least C- (minus) in Maths, Physics, Chemistry and English/Kiswahili	3 years (Integrated)
<b>SCHOOL OF SURVEYING AND GEOSPATIAL SCIENCES</b>		
Bachelor of Engineering (Geospatial Engineering)	• KCSE Mean Grade C+ (plus) with C+ (Plus) in Maths A, C+ (Plus) in Physics, and C (plain) in Geography	5 years (Integrated)
Bachelor of Applied Science (Geospatial Information and Communication)	• KCSE Mean Grade C+ (plus) with C+ (Plus) in Maths A, C+ (Plus) in Physics and C (plain) in Geography	5 years (Integrated)
Bachelor of Technology • Surveying Technology • Geo-information Technology	• KCSE Mean Grade C+ (plus) with C+ (Plus) in Maths A, C+ (Plus) in Physics and C (plain) in Geography  • KCSE Mean Grade C- (Minus) and Diploma in Technology in Geo-information Technology, Surveying Technology or equivalent	4 years (Integrated) 3 years (Part-time)
Bachelor of Science (Land Administration)	• KCSE Mean Grade C+ (plus), with C+ in Mathematics and pass in Physics	5 years (Integrated)
Diploma in Technology in: - • Geo-information Technology • Surveying Technology	• KCSE Mean Grade C (Plain) with C- (minus) in Maths, C Physics and Geography OR Certificate in Land Surveying or Cartography	3 years (Integrated)
<b>FACULTY OF APPLIED SCIENCES AND TECHNOLOGY</b>		
<b>SCHOOL OF BIOLOGICAL AND LIFE SCIENCES</b>		
Bachelor of Technology (Applied Biology)	• KCSE Mean Grade C+ (plus) with C+ (Plus) in Biology, C (Plain) in Maths A and C (Plain) in Chemistry • KCSE Mean Grade C- (Minus) and Diploma in Technology in Applied Biology or equivalent	4 years (Integrated programme) 3 years (Part time)
Bachelor of Technology (Biotechnology)	• KCSE Mean Grade C+ (plus) with C+ (Plus) in Biology, C (Plain) in Maths A and C (Plain) in Chemistry • KCSE Mean Grade C- (Minus) and Diploma in Technology in Biotechnology or equivalent	4 years (Integrated programme) 3 years (Part-time)
Bachelor of Technology (Food Science and Technology)	• KCSE Mean Grade C+ (plus) with C (Plain) in Biology/Agriculture/HSC, C (Plain) in Chemistry and C (Plain) in Mathematics • KCSE Mean Grade C- (Minus) and Diploma in Technology in Food Technology or equivalent	4 years (Integrated programme) 3 years (Part-time)
Bachelor of Science (Biochemistry)	• KCSE Mean Grade C+ (plus) with C+ (Plus) in Biology, C (Plain) in Maths A and C (Plain) in Chemistry	4 years (Integrated programme)
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COURSE TITLE	REQUIREMENTS	DURATION
Bachelor of Technology (Science Laboratory Technology)	• KCSE Mean Grade C+ (plus) with C+ (Plus) in Biology and C+ (Plus) in Maths A/ Physics • KCSE Mean Grade C- (Minus) and Diploma in Technology in Science Laboratory Technology or equivalent	4 years (Integrated programme) 3 years (Integrated programme)
Diploma in Technology (Science Laboratory Technology)	• KCSE Mean Grade C- (minus) with C- (minus) in Biology, C- (minus) in Chemistry/Physics and D+ in Maths A • Certificate in Science Laboratory Technology, together with Mean Grade D+ (Plus)	3 years (Full-time) 3 years (Integrated)
Diploma in Technology (Industrial and Applied Biology)	• KCSE Mean Grade C- (minus) with C- (minus) in Biology, D+ (plus) in Maths A and Chemistry.	3 years (Part-time)
Diploma in Technology (Biotechnology)	• KCSE Mean Grade C- (Minus) with C- (Minus) in Biology, Chemistry, Maths A/Physics and ENG/KIS	3 years (Part-time)
Diploma in Technology (Biochemistry)	• KCSE Mean Grade C- (Minus) with C- (Minus) in Biology, D+ (plus) in Maths A and Chemistry	3 years (Part-time)
Diploma in Technology (Ecology and Conservation Biology)	• KCSE Mean Grade C- (minus) with C- (minus) in Biology, D+ (plus) in Maths A and Chemistry.	3 years (Part-time)
Diploma in Technology (Food Science and Technology)	• KCSE Mean Grade C- (minus) with C- (minus) in Biology, Chemistry, Physics/ Maths A and English/ Kiswahili	3 years (Integrated)
<b>SCHOOL OF COMPUTING AND INFORMATION TECHNOLOGY</b>		
Bachelor of Technology (Information Technology)	• KCSE Mean Grade C+ (plus) with C (Plain) in Maths A, C (Plain) in Eng/Kisw • KCSE Mean Grade C- (Minus) and Diploma in Technology in Information Technology or equivalent	4 years (Integrated) 3 years
Bachelor of Technology (Computer Technology)	• KCSE Mean Grade C+ (plus) with C+ (Plus) in Maths A, C+ (Plus) in Physics and C (Plain) in Eng/Kisw • KCSE Mean Grade C- (Minus) and Diploma in Technology in Computer Technology or equivalent	4 years (Integrated) 3 years
Bachelor of Technology (Communication and Computer Networks)	• KCSE Mean Grade C+ (plus) with C+ (Plus) in Maths A, C+ (Plus) in Physics and C (Plain) in Eng/Kisw • KCSE Mean Grade C- (Minus) and Diploma in Technology in Computer Networks or equivalent	4 years (Integrated) 3 years
Diploma in Technology (Information Technology)	• KCSE Mean Grade C- (Minus) with C- (Minus) in Maths A and English/Kiswahili	3 years (Integrated)
Diploma in Technology in: - • Computer Technology • Communication and Computer Networks	• KCSE Mean Grade C- (Minus) with C- (Minus) in Maths A and Physics	3 years (Integrated)
<b>SCHOOL OF CHEMISTRY AND MATERIAL SCIENCE</b>		
Bachelor of Technology (Industrial and Applied Chemistry)	• KCSE Mean Grade C+ (plus) with C+ (Plus) in Chemistry, C (Plain) in Maths A, and C (Plain) in Physics • KCSE Mean Grade C- (Minus) and Diploma in Technology in Analytical/Industrial Chemistry or equivalent	4 years (Integrated)
Bachelor of Technology (Medicinal Chemistry)	• KCSE Mean Grade C+ (plus) with C+ (Plus) in Chemistry, Maths/Physics, Biology and any Group III/IV/V OR • KCSE Mean Grade C- (minus) and Diploma in Technology in Analytical/Industrial Chemistry or equivalent	4 years (Integrated) 3 years (Part-time)
Diploma in Technology Applied Chemistry (Analytical Chemistry)	• KCSE Mean Grade C- (minus) with C- (minus) in Chemistry, D+ (Plus) in Maths A/Physics.	3 years (Integrated)
Diploma in Technology Applied Chemistry (Industrial Chemistry)	• KCSE Mean Grade C- (minus) with C- (minus) in Chemistry, D+ (Plus) in Maths A/Physics.	3 years (Part-time)
<b>SCHOOL OF HEALTH AND BIOMEDICAL SCIENCES</b>		
Bachelor of Technology (Community Health and Wellness)	• KCSE Mean Grade C+ (plus) with C (Plain) in Biology, C (Plain) in Chemistry, C (Plain) in Maths/Physics and C (Plain) in English/Kiswahili • KCSE Mean Grade C- (Minus) and Diploma in Technology in Community and Public Health or equivalent	4 years (Integrated) 3 years (Part-time)
Diploma in Community and Public Health	• KCSE Mean Grade C- (Minus) with C- (minus) in Biology, Chemistry, Maths/Physics and English/ Kiswahili	3 years (Integrated)
Diploma in Technology (Health Records & Information Technology)	• KCSE Mean Grade C- (minus) with D+ (plus) in Maths A/B	3 years (Integrated)
Bachelor of Science (Nutrition and Dietetics)	• KCSE Mean Grade C+ (plus) with C (Plain) in Biology, C (Plain) in Chemistry, C (Plain) in Maths/Physics/ Geo and C (Plain) in English/Kiswahili OR • KCSE Mean Grade C- (Minus) and Diploma in Technology in Nutrition and Dietetics or equivalent	4 years (Integrated) 3 years (Part-time)
Diploma in Pharmaceutical Technology	• KCSE Mean Grade C (plain) with C (Plain) in Biology, Chemistry, Maths/Physics, English/Kiswahili	3 Year (Integrated full time)
Diploma in Nutrition and Dietetics	• KCSE Mean Grade C- (Minus) with D+ (Plus) in Biology, Chemistry, Maths/Physics, Geography/ Agriculture/Home Science and English/Kiswahili OR • Certificate in a related course, with KCSE D+ • KCSE Mean Grade C- (Minus) with D+ (Plus) in Chem/Physical Sciences, Bio/Biological Sciences Eng/Kis OR • D (Plain) in Phy/Maths/HSC/AGRIC/GSC	3 years (Integrated)
<b>SCHOOL OF MATHEMATICS AND ACTUARIAL SCIENCE</b>		
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COURSE TITLE	REQUIREMENTS	DURATION
Bachelor of Technology (Applied Statistics)	<ul style="list-style-type: none"> <li>• KCSE Mean Grade C+ (plus) with C+ (Plus) in Maths Alternative A</li> <li>• Diploma in Technology in Applied Statistics and KCSE Mean Grade C- (Minus)</li> <li>• Diploma in Technology in Actuarial Science and KCSE Mean Grade C- (Minus)</li> </ul>	4 years (Integrated) 3 Year (Integrated) 3 Year (Integrated)
Bachelor of Science (Mathematics)	• KCSE Mean Grade C+ (plus) with C+ (Plus) in Maths Alternative A	4 years (Integrated)
Diploma in Technology in: - • Applied Statistics • Actuarial Science	• KCSE Mean Grade of C- (Minus) with C- (Minus) in Maths Alternative A and C- In Group II, III, OR any other	3 years (Integrated)
<b>SCHOOL OF PHYSICS AND EARTH SCIENCES</b>		
Bachelor of Technology (Technical and Applied Physics)	<ul style="list-style-type: none"> <li>• KCSE Mean Grade C+ (plus) with C+ (Plus) in Physics and C (plain) in Maths A</li> <li>• KCSE Mean Grade C- (Minus) and Diploma in Technology in Technical and Applied Physics or equivalent</li> </ul>	4 years (Integrated programme) 3 years (Part time)
Bachelor of Technology (Environmental Resource Management)	<ul style="list-style-type: none"> <li>• KCSE Mean Grade C+ (plus) with C+ (plus) in Biology/Agric. and C+ (plus) in Chemistry/Geography</li> <li>• Diploma in Technology in relevant areas from recognized institution</li> </ul>	4 years 3 years (Part time)
Bachelor of Technology (Environmental Science)	<ul style="list-style-type: none"> <li>• KCSE mean Grade C+ (plus) with C+ (plus) in Biology/Agric. and C+ (plus) in Chemistry/Geography</li> <li>• KCSE Mean Grade C- (Minus) and Diploma in Technology in Environmental Resource Management or equivalent</li> </ul>	4 years (Integrated) 3 years (Part-time)
Diploma in Technology (Environmental Resource Management)	• KCSE mean Grade C- (minus) with C- (minus) in Biology and Chemistry Or a 1-year Certificate with KCSE D+ in relevant areas from an institution recognised by the Senate of TU-K	3 years (Integrated)
Diploma in Technology (Technical and Applied Physics)	• KCSE Mean Grade C- (minus) with C- (minus) in Physics, Maths A and Pass in 2 <sup>nd</sup> Group II, Group III/IV/V	3 years (Integrated)
<b>Centre for Integrated Water Resource Management (CIWRM)</b>		
Bachelor of Technology in Integrated Water Resources Management.	<ul style="list-style-type: none"> <li>• KCSE Mean Grade C+ (plus) with C+ (Plus) in Maths, Chemistry, Physics/Geography, Biology/any Group III/IV/V</li> <li>• KCSE Mean Grade C- (Minus) and Diploma in IWRM of Technical University and with a distinction or credit or any such qualification from the Technical University of Kenya or any other institutions accepted and recognized by the Senate of the Technical University of Kenya</li> </ul>	4 years (Integrated programme) 3 years (Part time)
Diploma in Integrated Water Resources Management.	<ul style="list-style-type: none"> <li>• KCSE Mean Grade C- (minus) with C- (minus) in Physics/Chemistry, Maths, Biology/ Geography and any Group III/IV/V</li> <li>• Candidates with a Certificate in Water Engineering or Certificate Grade III in Technology of the Technical University of Kenya or an equivalent qualification at the craft level from the Technical Training Institutes (TTI's) or from any other recognized institution</li> </ul>	3 years (Integrated)
<b>FACULTY OF SOCIAL SCIENCES AND TECHNOLOGY</b>		
<b>SCHOOL OF BUSINESS AND MANAGEMENT STUDIES</b>		
Bachelor of Science (Accountancy)	<ul style="list-style-type: none"> <li>• KCSE Mean Grade C+ (plus) with C+ (Plus) in Maths A and C (Plain) in Eng./Kis.</li> <li>OR</li> <li>Diploma in Accountancy and KCSE Grade C- (minus)</li> </ul>	4 years (Integrated) 3 years (Part-time)
Bachelor of Commerce: • Accounting • Business Administration • Finance • Human Resource Management • Insurance • Logistics and Supply Chain Management • Marketing	• KCSE Mean Grade C+ (plus) with C (plain) in Maths A/B	4 years (Integrated)
Bachelor of Business Studies: • Business Administration • Human Resource Management • Logistics and Supply Chain Management • Sales and Marketing Management, International Business Management, Marketing, Business Management	• KCSE Mean Grade C- (Minus) and Diploma in Technology in any Business area	3 years (Part-time)
Bachelor of Economics	<ul style="list-style-type: none"> <li>• KCSE Mean Grade C+ (Plus) and C+ (Plus) in Maths A and C (Plain) in English/Kiswahili</li> </ul>	4 years (Integrated)
Bachelor of Technology (Business Information Technology)	<ul style="list-style-type: none"> <li>• KCSE Mean Grade C+ (plus) with C (plain) in Maths A/B.</li> <li>• Higher/Advanced Diploma in Information Technology or Computer Science OR 3-year Dip. Tech. Business Information Technology (BIT). Diploma in Information Technology, Computer Science OR its equivalent recognised by senate of TU_K together with KCSE Mean Grade C- (Minus)</li> </ul>	4 years (Integrated) 3 years (Part-time)
Bachelor of Technology (Office Administration and Technology)	<ul style="list-style-type: none"> <li>• KCSE Mean Grade C+ (plus) with C (plain) in Maths A/B.</li> <li>• KCSE Mean Grade C- (Minus) and Diploma in Technology in Secretarial Studies or equivalent</li> </ul>	4 years (Integrated programme) 3 years (Part-time)
Diploma in Business Information Technology	<ul style="list-style-type: none"> <li>• KCSE Mean Grade C- (Minus) with D+ (plus) in Maths A/B OR</li> <li>• 1 year Certificate in Information Technology together with KCSE D+ (Plus).</li> </ul>	3 years (Integrated programme)
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Diploma in Entrepreneurship	<ul style="list-style-type: none"> <li>• KCSE Mean Grade C- (Minus) with D+ (plus) in Maths A/B OR</li> <li>• 1 year Certificate in a relevant area together with KCSE D+ (Plus).</li> </ul>	3 years (Part-time)
Diploma in Business Studies: • Business Administration • Human Resource Management • Sales and Marketing Management • Procurement and Supply Chain Management	<ul style="list-style-type: none"> <li>• KCSE Mean Grade C- (Minus) with D+ (plus) in Maths A/B OR:</li> <li>• 1 year Certificate in a relevant area together with KCSE D+ (Plus)</li> </ul>	3 years (Integrated programme)
Diploma in Accountancy	• KCSE Mean Grade C- (minus) with C- (minus) in Maths A and Eng./Kis.	3 years (Part-time)
Diploma in Office Administration: • Legal Secretarial • Medical Secretarial • Business Secretarial • Foreign Language Secretarial	<ul style="list-style-type: none"> <li>• KCSE Mean Grade C- (Minus) with D+ (plus) in Maths A/B OR:</li> <li>• 1-year Certificate in a relevant area together with KCSE D+ (Plus)</li> </ul>	3 years (Part-time)
<b>SCHOOL OF CREATIVE ARTS AND MEDIA</b>		
Bachelor of Technology (Design)	<ul style="list-style-type: none"> <li>• KCSE Mean Grade C+ (plus), with C+ in Mathematics and C+ in Physics</li> <li>• KCSE Mean Grade C- (Minus) and Diploma in Technology in Design or equivalent</li> </ul>	4 years (Integrate) 3 years (Part-time)
Diploma in Technology in Design	• KCSE mean grade C- (Minus) and D+ (plus) in Mathematics and a Pass in Physics OR a relevant certificate in Fine Art or Design, together with Mean Grade D+ (Plus). Art and Design will be an added advantage. Where possible applicants are advised to provide portfolios for verification by the University.	3 years (Part-time)
Bachelor of Technology (Journalism and Mass Communication)	<ul style="list-style-type: none"> <li>• KCSE Mean Grade C+ (plus) with C+ (plus) in Eng./Kis.</li> <li>• KCSE Mean Grade C- (Minus) and Diploma in Technology in Journalism and Mass Communication or its equivalent recognised by senate of TU_K</li> </ul>	4 years (Integrated programme) 3 years (Part-time)
Diploma in Technology (Journalism and Mass Communication)	• KCSE Mean Grade C- (minus) with C- (minus) in Eng./Kis. And a Pass in Maths A/B, or any Group II, Group III, 2 <sup>nd</sup> Group II or 2 <sup>nd</sup> Group III or Group IV/V	3 years (Integrated programme)
Bachelor of Music	• KCSE Mean Grade C+ (plus) with C+ (plus) in Music	4 years (Integrated programme)
Diploma in Music	<ul style="list-style-type: none"> <li>• KCSE Mean Grade C- (Minus) and Diploma in Technology in Music or equivalent</li> <li>• KCSE C- (minus) with C- (minus) in Music and a Pass in Eng./Kis. Maths A/B or any Group II or Group III, 2<sup>nd</sup> Group II or 2<sup>nd</sup> Group III of Group IV or Group V. OR</li> <li>• Grade 5 theory and/or practical of ABRSM, LCM or equivalent body together with KCSE D+ (Plus). Involvement in Music Festivals, Church Music/ Gospel Music performance will be an added advantage.</li> </ul>	3 years (Integrated programme)
Bachelor of Technology (Printing Technology)	<ul style="list-style-type: none"> <li>• KCSE Mean Grade C+ (plus) with C (plain) in Maths A/B, Physics, English/Kiswahili, Any Group III/IV/V OR</li> <li>• Diploma in Technology in Printing Technology and KCSE Mean Grade C- (Minus)</li> </ul>	4 years (Integrated programme) 3 years (Part-time)
Bachelor of Philosophy in Technology (Printing)	• KCSE Mean Grade C- (Minus) and Higher Diploma in Printing Technology or its equivalent recognised by senate of TU-K	2½ years (Part-time)
Diploma in Technology (Printing)	• K.C.S.E Mean Grade C- with C- (Minus) in English/Kiswahili or Certificate in Machine Printing, Print Finishing, Print Origination together with KCSE D+ (Plus)	3 years (Integrated programme)
<b>SCHOOL OF HOSPITALITY AND HUMAN ECOLOGY</b>		
Bachelor of Science in Tourism and Travel Management	• KCSE Mean Grade C+ (plus) with C (plain) in Maths A/B and a pass in English/Kiswahili	4 Years (Integrated Program)
Bachelor of Technology in Tourism and Travel Management	<ul style="list-style-type: none"> <li>• KCSE Mean Grade C+ (plus) with C (plain) in Maths A/B and a pass in English/Kiswahili</li> <li>OR</li> <li>• 3-year Diploma in Technology in Tourism and Travel Management from TUK or Equivalent qualification from another institution recognized by the Senate together with KCSE Mean Grade C- (Minus) OR</li> <li>• KCSE Mean Grade D+ (Plus), a Certificate and Diploma in Tourism and Travel Management or equivalent</li> </ul>	4 Years (Integrated Program) 3 years (Part time)
Bachelor of Science in Hospitality Management	• KCSE Mean Grade C+ (plus) with C (plain) in Maths A/B and a pass in English/Kiswahili	4 Years (Integrated Program)
Bachelor of Technology in Hotel and Restaurant Management	<ul style="list-style-type: none"> <li>• KCSE Mean Grade C+ (plus) with C (plain) in Maths A/B and a pass in English/Kiswahili</li> <li>OR</li> <li>• KCSE Mean Grade C- (Minus) and Diploma in Technology (Dip-Tech) in Hotel and Restaurant Management or equivalent OR</li> <li>• KCSE Mean Grade D+ (Plus), Certificate and a Diploma in Hotel and Restaurant Management or equivalent</li> </ul>	4 Years (Integrated Program) 3 years (Part time)
Integrated programmes will be taught during the day on weekdays together with Government-sponsored students Part-time programmes will be taught in the evenings and on weekends		



COURSE TITLE	REQUIREMENTS	DURATION
Bachelor of Technology in Institutional Catering and Accommodation Management	<ul style="list-style-type: none"> <li>• KCSE Mean Grade C+ (plus) with C (plain) in Maths A/B and a pass in English/Kiswahili</li> <li>• Group II or Group III, 2<sup>nd</sup> Group II or 2<sup>nd</sup> Group II or 2<sup>nd</sup> Group III or Group IV or Group V</li> <li>• KCSE Mean Grade C- (Minus) and Diploma in Technology (Dip-Tech) in Institutional Catering and Accommodation Management or equivalent</li> </ul>	4 Years (Integrated Program)  3 years (Part time)
Bachelor of Science in Event and Convention Management	<ul style="list-style-type: none"> <li>• KCSE Mean Grade C+ (plus)</li> </ul>	4 Years (Integrated)
Bachelor of Technology in Textile Technology	<ul style="list-style-type: none"> <li>• KCSE Mean Grade C+ (plus) with C (plain) in Chemistry OR</li> <li>• Diploma in Technology in Textile Technology and KCSE Mean Grade C- (Minus) OR</li> <li>• KCSE Mean Grade D+(Plus), Certificate and a Diploma in Technology in Textile Technology</li> </ul>	4 Years ( Part-time)  3 Years (Part-time)
Bachelor of Technology in Fashion Design NEW!	<ul style="list-style-type: none"> <li>• KCSE Mean Grade C+ (plus) with C (Plain) in Chemistry OR</li> <li>• 3-year Diploma in Fashion Design from TUK or Equivalent together with KCSE Mean Grade C- (Minus)</li> </ul>	4 Years ( Part-time)  3 Years (Part-time)
Bachelor of Science (Counselling Psychology)	<ul style="list-style-type: none"> <li>• KCSE Mean Grade C+ (Plus) OR</li> <li>• KCSE Mean Grade C- (Minus) and Diploma in Technology in Counselling Psychology or its equivalent recognised by senate</li> </ul>	4 Years (Integrated programme)  3 Years (Part-time)
Diploma in Social Work and Community Development	<ul style="list-style-type: none"> <li>• KCSE Mean Grade C- (Minus) and a Pass in Eng/Kis, Maths A/B or Group II, Group III, 2<sup>nd</sup> Group II or 2<sup>nd</sup> Group III or Group IV/V,</li> </ul>	3 Years ( Integrated)
Diploma in Technology (Fashion Design)	<ul style="list-style-type: none"> <li>• KCSE Mean Grade C-(Minus) with D+ (Plus) in Chemistry and a Pass in Maths A/B or Physics, Biology or HSC, Eng/Kis or any Group III or Group IV or Group V OR a one-year relevant certificate with KCSE D+ (Plus)</li> </ul>	3 Years ( Integrated)
Diploma in Technology in Textile Technology	<ul style="list-style-type: none"> <li>• KCSE Mean Grade C-(Minus) with D+ (Plus) in Chemistry and a Pass in Maths A/B or Physics, Biology or HSC, Eng/Kis or any Group III or Group IV or Group V OR a one-year relevant certificate with KCSE D+ (Plus)</li> </ul>	3 Years ( Integrated)
Diploma in Technology (Hairdressing and Beauty Therapy)	<ul style="list-style-type: none"> <li>• KCSE Mean Grade C-(Minus) with D+ (Plus) in Chemistry and a Pass in Maths A/B or Physics, Biology or HSC, Eng/Kis or any Group III or Group IV or Group V OR a one-year relevant certificate with KCSE D+ (Plus)</li> </ul>	3 Years ( Integrated)
Diploma in Technology in Tourism and Travel Management	<ul style="list-style-type: none"> <li>• KCSE C- (minus) Mean grade and D+ (plus) in Maths A/Maths B and a pass in Eng/Kis, Group II or Group III, a 2<sup>nd</sup> Group II/III any Group IV or Group V, OR relevant certificate from an institution recognised by senate with KCSE D+ (Plus).</li> </ul>	3 Years (Integrated )
Diploma in Technology in Event and Convention Management	<ul style="list-style-type: none"> <li>• KCSE C- (minus) Mean Grade with a pass in English/Kiswahili, Mathematics A/B, Group III, Group II or 2<sup>nd</sup> Group III or any Group IV V.</li> <li>OR</li> <li>• Relevant certificate from an institution recognized by Senate together with KCSE D+ (Plus).</li> </ul>	3 Years (Integrated)
Diploma in Technology in Hotel and Restaurant Management	<ul style="list-style-type: none"> <li>• KCSE C- (minus) Mean grade and D+ (plus) in Maths A/ Maths B, and a pass in Eng./Kis, Group II or Group III, 2<sup>nd</sup> Group II or 2<sup>nd</sup> Group III or Group IV or Group V.</li> <li>OR</li> <li>• Relevant certificate from an institution recognized by Senate together with KCSE D+ (Plus).</li> </ul>	3 Years (Integrated)
Diploma in Technology in Institutional Catering and Accommodation Management	<ul style="list-style-type: none"> <li>• KCSE C- (minus) Mean grade and D+ (plus) in Maths A/ Maths B, and a pass in Eng./Kis, Group II or Group III, 2<sup>nd</sup> Group II or 2<sup>nd</sup> Group III or Group IV or Group V.</li> <li>OR</li> <li>• Relevant certificate from an institution recognized by Senate together with KCSE D+ (Plus).</li> </ul>	3 Years (Integrated)

SCHOOL OF INFORMATION AND SOCIAL STUDIES		
Bachelor of Science (Information Science)	<ul style="list-style-type: none"> <li>• KCSE Mean Grade C+ (plus) with C (plain) in Maths A/B</li> </ul>	4 years (Integrated programme)

Integrated programmes will be taught during the day on weekdays together with Government-sponsored students  
Part-time programmes will be taught in the evenings and on weekends

COURSE TITLE	REQUIREMENTS	DURATION
Bachelor of Technology (Information Studies)	<ul style="list-style-type: none"> <li>• KCSE Mean Grade C- (Minus) and Diploma in Technology in Library Information Technology, Archives and Records Management, Information Science or equivalent</li> </ul>	3 years (Part-time)
Diploma in Technology in: Archives and Records Management Library and Information Technology	<ul style="list-style-type: none"> <li>• KCSE Mean Grade C- (minus) and a Pass in Eng./ Kis., Group II/III and 2<sup>nd</sup> Group II/III or Group IV or Group V OR</li> <li>• Relevant certificate together with KCSE D+ (Plus).</li> </ul>	3 years (Integrated programme)
Bachelor of Arts (International Relations and Diplomacy)	<ul style="list-style-type: none"> <li>• KCSE Mean Grade C+ (plus) with C+ (plus) in Eng./ Kis.</li> <li>• KCSE Mean Grade C- (Minus) and Diploma in International Relations and Diplomacy or equivalent</li> </ul>	4 years (Integrated programme)  3 years (Part-time)
Diploma in International Relations and Diplomacy	<ul style="list-style-type: none"> <li>• KCSE Mean Grade C- (Minus) with C- (Minus) in English/Kiswahili a Pass in Math A/B or Group II, Group III, 2<sup>nd</sup> Group II/III or Group IV/V</li> </ul>	3 years (Integrated Programmes)
Diploma in Disaster Management	<ul style="list-style-type: none"> <li>• KCSE Mean Grade C- (Minus) with C- (Minus) in English/Kiswahili a Pass in Math A/B or Group II, Group III, 2<sup>nd</sup> Group II/III or Group IV/V</li> </ul>	3 years (Part-time)
Diploma in Criminology and Security Studies	<ul style="list-style-type: none"> <li>• KCSE Mean Grade C- (minus) a Pass in Eng./Kis., Math A/B or Group II, Group III, 2<sup>nd</sup> Group II/III or Group IV/V</li> </ul>	3 years (Part-time)
Bachelor of Arts (Criminology and Security Management)	<ul style="list-style-type: none"> <li>• KCSE Mean Grade C+ (Plus) with a Pass in Eng./ Kis., Math A/B or Group II, Group III, 2<sup>nd</sup> Group II/III or Group IV/V, OR</li> <li>• KCSE Mean Grade C- (Minus) and Diploma in Criminology or equivalent</li> </ul>	4 years (Part-time)  3 years (Part-time)
Diploma in Legal Studies	<ul style="list-style-type: none"> <li>• KCSE Mean Grade C (plain) with C+(plus) in English/Kiswahili OR</li> <li>• KCSE Mean Grade C- (minus) and C (plain) in English/Kiswahili together with Certificate in Criminology, Criminal Investigations, Disaster Management, Criminal Justice or Crime Prevention or equivalent</li> </ul>	3 years (Part-time)

Integrated programmes will be taught during the day on weekdays together with Government-sponsored students  
Part-time programmes will be taught in the evenings and on weekends

## ONLINE APPLICATION PROCEDURE:

1. Create an Account with us or sign in if the account is already created;
2. Enter your personal details to obtain a REFERENCE NUMBER which is in the form of APP/xxxxx/2021;
3. Enter your academic qualifications and upload scanned copies of the corresponding certificates or result slips. Please note that result slips for examinations taken more than two years ago will not be accepted;
4. Pay the application fee of KES 2,000 for Diploma/undergraduate programmes, KES 3,000 for postgraduate programmes and KES 3,600 for foreign applicants. These payments should be made through MPESA Paybill number 5236153 and account number should be your application REFERENCE NUMBER obtained in 2. above. The payment will be confirmed automatically after 24 banking hours;
5. After the elapse of 24 banking hours, return to this portal, log in and choose your preferred programme of study; thereafter,
6. SUBMIT your programme of choice and wait for the selection process to be concluded. Meanwhile, you are advised to frequently log in, using your account details, to establish the status of your application.

Enquiries or clarification on the application for the programmes above may be made through the dedicated Admissions Office telephone number +254 20 2216136.

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**THE TECHNICAL UNIVERSITY OF KENYA**  
SCHOOL OF GRADUATE AND ADVANCED STUDIES

# POSTGRADUATE DEGREE PROGRAMMES

## STARTING JULY 2022

**T**HE Technical University of Kenya (TU-K) is one of the special public universities in Kenya providing technical education and training. At the same time, it engages in research and innovation that is focused on application of technological knowledge and skills in finding solutions to societal problems. The University invites applications from suitable and qualified persons to enrol for the following postgraduate programmes:

PROGRAMME	ELIGIBILITY	DURATION	PROGRAMME	ELIGIBILITY	DURATION
<b>School of Mathematics and Actuarial Science</b>					
Master of Science in Applied Statistics	<ul style="list-style-type: none"> <li>A holder of at least a Second Class Honours (Upper Division), Bachelor's degree in Statistics of TU-K; or equivalent from another university recognized by the Senate OR</li> <li>A holder of a Second Class Honours (Lower Division) Bachelor's degree in Statistics of TU-K, or equivalent from another university recognized by Senate with either at least two (2) years of relevant experience or a postgraduate diploma/certificate in Statistics and one (1) year of relevant work experience.</li> </ul>	2 years	Masters of Technology in Petroleum Chemistry	<ul style="list-style-type: none"> <li>At least a second class Honours (Upper Division) degree of TU-K in the relevant field or equivalent from a university recognized by the senate of TU-K OR</li> <li>At least a Second Class Honours (Lower Division) degree of TU-K or equivalent from a university recognized by the senate of TU-K; with either at least two (2) years of relevant experience OR relevant Postgraduate Diploma with 1-year relevant work experience.</li> </ul>	2YRS
Master of Science in Mathematics (Pure Or Applied Mathematics)	<ul style="list-style-type: none"> <li>A holder of at least a Second Class Honours (Upper Division), Bachelor's degree in Mathematics of TU-K; or its equivalent from a university recognised by the Senate of TU-K, OR</li> <li>A holder of a Second Class Honours (Lower Division) Bachelor's degree in Mathematics of TU-K, or equivalent from another university recognized by Senate with either at least two (2) years of relevant experience or a postgraduate diploma/certificate in Statistics and one (1) year of relevant work experience.</li> </ul>	2 years	Master of Science in Computational Chemistry	<ul style="list-style-type: none"> <li>At least a second class Honours (Upper Division) degree of TU-K in the relevant field or equivalent from a university recognized by the senate of TU-K OR</li> <li>At least a Second Class Honours (Lower Division) degree of TU-K or equivalent from a university recognized by the senate of TU-K; with either at least two (2) years of relevant experience OR relevant Postgraduate Diploma with 1 year relevant work experience.</li> </ul>	2YRS
<b>School of Biological and Life Sciences</b>					
Master of Technology in Applied Entomology	<ul style="list-style-type: none"> <li>At least a Second Class Honours (Upper Division) degree of TU-K in the relevant field or equivalent from a university recognised by the Senate of TU-K OR</li> <li>At least a Second Class Honours (Lower Division) degree of TU-K or equivalent from a university recognised by the Senate of TU-K; with either at least two (2) years of relevant experience OR relevant Postgraduate Diploma with 1 year relevant work experience</li> </ul>	2 years	<b>School of Computing and Information Technologies</b>		
Master of Technology in Applied Parasitology	<ul style="list-style-type: none"> <li>At least a Second Class Honours (Upper Division) degree in Biological or related field of TU-K or its equivalent from a university recognised by the Senate of TU-K OR</li> </ul>	2 years	Master of Technology in Computer Technology	<ul style="list-style-type: none"> <li>At least a Second Class Honours (Upper Division) degree of TU-K in the relevant field or equivalent from a university recognised by the Senate of TU-K OR</li> <li>At least a Second Class Honours (Lower Division) degree of TU-K or equivalent from a university recognised by the Senate of TU-K; with either at least two (2) years of relevant experience OR relevant Postgraduate Diploma with 1 year relevant work experience.</li> </ul>	2 years
Master of Science in Forensic Biochemistry	<ul style="list-style-type: none"> <li>Second Class Honours (Lower Division) degree in Biological or related field or its equivalent from a university recognised by the Senate of TU-K with either two (2) years relevant work experience OR a postgraduate diploma in relevant field of biology.</li> </ul>	2 years	Master of Technology in Communication and Computer Networks	<ul style="list-style-type: none"> <li>At least a second class Honours (Upper Division) degree of TU-K in the relevant field or equivalent from a university recognised by the senate of TU-K OR</li> <li>At least a Second Class Honours (Lower Division) Bachelor's degree of TU-K in the relevant field, or equivalent from another university recognized by Senate with either at least two (2) years of relevant experience OR a relevant postgraduate diploma/certificate and one (1) year of relevant work experience.</li> </ul>	Minimum 2 Years (Full Time) Maximum 4 Years
Master of Science in Applied Parasitology	<ul style="list-style-type: none"> <li>At least a Second Class Honours (Upper Division) degree of TU-K in the relevant field or equivalent from a university recognised by the Senate of TU-K OR</li> <li>At least a Second Class Honours (Lower Division) degree of TU-K or equivalent from a university recognised by the Senate of TU-K; with either at least two (2) years of relevant experience OR relevant Postgraduate Diploma with 1 year relevant work experience</li> </ul>	2 years	<b>Centre for Integrated Water Resource Management (CIWRM)</b>		
<b>School of Health and Biomedical Sciences</b>					
Doctor of Philosophy in Biomedical Science: Options in	<ul style="list-style-type: none"> <li>A holder of Bachelor's degree in relevant field</li> <li>A holder of a Master's degree in the relevant field</li> </ul>	6 semesters	Master of Technology in Integrated Water Resources Management	<ul style="list-style-type: none"> <li>At least a Second Class Honours (Upper Division) degree of TU-K in the relevant field or equivalent from a university recognised by the Senate of TU-K OR</li> <li>A holder of a Second Class Honours (Lower Division) Bachelor's degree of TU-K in the relevant field, or equivalent from another university recognized by Senate with either at least two (2) years of relevant experience OR a relevant postgraduate diploma/certificate and one (1) year of relevant work experience.</li> </ul>	Minimum 2 Years (Full Time) Maximum 4 Years
<ul style="list-style-type: none"> <li>Medical Microbiology</li> <li>Medical Immunology</li> <li>Medical Parasitology</li> <li>Clinical Haematology &amp; Blood Transfusion Science</li> <li>Clinical Chemistry</li> <li>Clinical Histocytopathology</li> <li>Medical Virology</li> </ul>			<b>RELATED FIELDS OF STUDY:</b> Integrated Water Resources Management (IWRM); Hydrology & Water Resources; Geography Chemistry; Biology; Biochemistry; Environmental Sciences; Political Sciences; Law, Governance and Public Policy; Economics; Earth Sciences; Meteorology/Climate Sciences, Civil Engineering; Water & Environmental Engineering; Biosystems and Environmental Engineering; Geospatial Engineering; Agricultural Engineering; Mechanical Engineering; Electrical Engineering; etc.		
Master of Science in Community Nutrition	<ul style="list-style-type: none"> <li>At least a Second Class Honours (Upper Division) degree of TU-K in the relevant field or equivalent from a university recognised by the Senate of TU-K OR</li> <li>At least a Second Class Honours (Lower Division) degree of TU-K or equivalent from a university recognised by the Senate of TU-K; with either at least two (2) years of relevant experience OR relevant Postgraduate Diploma with 1 year relevant work experience</li> </ul>	2 years	<b>School of Construction and Property Studies</b>		
Master of Science in Medical Laboratory Science	<ul style="list-style-type: none"> <li>At least a Second Class Honours (Upper Division) degree of TU-K in the relevant field or equivalent from a university recognised by the Senate of TU-K OR</li> <li>At least a Second Class Honours (Lower Division) degree of TU-K or equivalent from a university recognised by the Senate of TU-K; with either at least two (2) years of relevant experience OR relevant Postgraduate Diploma with 1 year relevant work experience</li> </ul>	2 years	Doctor of Philosophy in Construction Project Management	<ul style="list-style-type: none"> <li>A holder of a Master's degree in Construction Project Management or related area, from TU-K or any other institution accepted and recognised by Senate, or</li> <li>A holder of a relevant Master's degree of Technical University of Kenya or of any other institution recognised by Senate</li> <li>A holder of a relevant Bachelor's degree of TU-K or from any other university recognised by the Senate of TU-K</li> </ul>	3 years
Master of Public Health	<ul style="list-style-type: none"> <li>At least a Second Class Honours (Upper Division) degree of TU-K in the relevant field or equivalent from a university recognised by the Senate of TU-K OR</li> <li>At least a Second Class Honours (Lower Division) degree of TU-K or equivalent from a university recognised by the Senate of TU-K; with either at least two (2) years of relevant experience OR relevant Postgraduate Diploma with 1 year relevant work experience</li> </ul>	2 years	Master of Construction Project Management Research and Thesis	<ul style="list-style-type: none"> <li>At least a second class Honours (Upper Division) degree of TU-K in the relevant field or equivalent from a university recognized by the senate of TU-K OR</li> <li>At least a Second Class Honours (Lower Division) degree of TU-K or equivalent from a university recognized by the senate of TU-K; with either at least two (2) years of relevant industry experience OR relevant Postgraduate Diploma with 1-year relevant work experience.</li> </ul>	2 Years
<b>School of Physics and Earth Sciences</b>					
Doctor of Philosophy (Physics)	A holder of a Master's degree in any relevant field of Physics	3 Years	<b>School of Mechanical and Manufacturing Engineering</b>		
Master of Science (Physics)	<ul style="list-style-type: none"> <li>At least a second class Honours (Upper Division) degree of TU-K in the relevant field or equivalent from a university recognized by the senate of TU-K OR</li> </ul>	2 years	Master of Technology (Mechanical Engineering Technology)	<ul style="list-style-type: none"> <li>At least a Second Class Honours (Upper Division) degree or its equivalent from a university recognised by the Senate of TU-K OR</li> <li>Second Class Honours (Lower Division) degree or its equivalent in the relevant discipline with a Postgraduate diploma/certificate and 1 year of relevant work experience in the following areas: -</li> </ul>	2 years
Master of Science (Medical Physics)	<ul style="list-style-type: none"> <li>At least a Second Class Honours (Lower Division) degree of TU-K or equivalent from a university recognized by the senate of TU-K; with either at least two (2) years of relevant experience OR relevant Postgraduate Diploma with 1 year relevant work experience.</li> </ul>	2 years	<b>School of Electrical and Electronic Engineering</b>		
Master of Technology in Environmental Resource Management	<ul style="list-style-type: none"> <li>At least a Second Class Honours (Upper Division) degree of TU-K in the relevant field or equivalent from a university recognised by the Senate of TU-K OR</li> <li>At least a Second Class Honours (Lower Division) degree of TU-K or equivalent from a university recognised by the Senate of TU-K; with either at least two (2) years of relevant experience OR relevant Postgraduate Diploma with 1 year relevant work experience.</li> </ul>	2 years	Doctor of Philosophy in Electrical and Electronic Engineering (By Research)	<ul style="list-style-type: none"> <li>A holder of a Master's degree in the relevant field from Technical university of Kenya, or</li> <li>A holder of a relevant Master's degree from another institution recognised by the Senate of TU-K</li> <li>A Bachelor's degree in a relevant field</li> </ul>	3 years
<b>School of Chemistry and Material Science</b>					
Doctor of Philosophy (Chemistry)	A holder of a Master's degree in any relevant field of Chemistry	3 Years	Master of Science in Electrical and Electronic Engineering	<ul style="list-style-type: none"> <li>At least a Second Class Honours (Upper Division) degree of TU-K in the relevant field or equivalent from a university recognised by the Senate of TU-K OR</li> <li>A holder of a Second Class Honours (Lower Division) Bachelor's degree of TU-K in the relevant field, or equivalent from another university recognized by Senate with either at least two (2) years of relevant experience OR a relevant postgraduate diploma/certificate and one (1) year of relevant work experience.</li> </ul>	2 years



PROGRAMME	ELIGIBILITY	DURATION
<b>School of Business and Management Studies</b>		
Doctor of Philosophy in Business Administration: • Accounting • Finance • Human Resource Management • Logistics and Supply Chain Management • Marketing Management • Strategic Management • Business Analytics • Information Systems and Technology Management • Operations Strategy and Management • International Trade and Business Management • Risk and Actuarial Science • Innovation and Entrepreneurship Management	<ul style="list-style-type: none"> <li>• A holder of a relevant Master's degree of TU-K or of another university or institution recognized by Senate of TU-K; OR</li> <li>• A candidate enrolled for a Master's Degree in TU-K for at least one year who has, to the satisfaction of the Senate, shown exceptional progress in the research work to merit upgrading.</li> </ul>	2 years
Master of Arts in Entrepreneurship	<ul style="list-style-type: none"> <li>• At least a Second Class Honours (Upper Division) degree of TU-K in the relevant field or equivalent from a university recognised by the Senate of TU-K OR</li> <li>• A holder of a Second Class Honours (Lower Division) Bachelor's degree of TU-K in the relevant field, or equivalent from another university recognized by Senate with either at least two (2) years of relevant experience OR a relevant postgraduate diploma/certificate and one (1) year of relevant work experience.</li> </ul>	2 years
Master of Business Administration: • Accounting • Finance • Human Resource Management • Logistics and Supply Chain Management • Marketing Management • Strategic Management • Business Analytics • Information Systems and Technology Management • Operations Strategy and Management • International Trade and Business Management • Risk and Actuarial Science • Innovation and Entrepreneurship Management	<ul style="list-style-type: none"> <li>• At least a Second Class Honours (Upper Division) degree of TU-K in the relevant field or equivalent from a university recognised by the Senate of TU-K OR</li> <li>• A holder of a Second Class Honours (Lower Division) Bachelor's degree of TU-K in the relevant field, or equivalent from another university recognized by Senate with either at least two (2) years of relevant experience OR a relevant postgraduate diploma/certificate and one (1) year of relevant work experience.</li> </ul>	2 years
<b>School of Information and Social Studies</b>		
Doctor of Philosophy In Applied Linguistics	<ul style="list-style-type: none"> <li>• A holder of a Master's Degree of Technical University of Kenya in the relevant field; OR</li> <li>• A holder of a relevant Master's Degree from another institution recognised by the Senate of TU-K, shown exceptional progress in the research work to merit upgrading,</li> <li>• A holder of Degree in the relevant field</li> </ul>	3 years
Doctor of Philosophy in Information and Knowledge Management	<ul style="list-style-type: none"> <li>• A holder of a relevant Master's Degree from another institution recognised by the Senate of TU-K, shown exceptional progress in the research work to merit upgrading,</li> <li>• A holder of Degree in the relevant field</li> </ul>	3 years
Master of Applied Linguistics	<ul style="list-style-type: none"> <li>• At least a Second Class Honours (Upper Division) degree of TU-K in the relevant field or equivalent from a university recognised by the Senate of TU-K OR</li> <li>• A holder of a Second Class Honours (Lower Division) Bachelor's degree of TU-K in the relevant field, or equivalent from another university recognized by Senate with either at least two (2) years of relevant experience OR a relevant postgraduate diploma/certificate and one (1) year of relevant work experience.</li> </ul>	2 years
Master of Science in Information and Knowledge Management	<ul style="list-style-type: none"> <li>• At least a Second Class Honours (Upper Division) degree of TU-K in the relevant field or equivalent from a university recognised by the Senate of TU-K OR</li> <li>• A holder of a Second Class Honours (Lower Division) Bachelor's degree of TU-K in the relevant field, or equivalent from another university recognized by Senate with either at least two (2) years of relevant experience OR a relevant postgraduate diploma/certificate and one (1) year of relevant work experience.</li> </ul>	2 years

PROGRAMME	ELIGIBILITY	DURATION
Master of Science in International Relations	<ul style="list-style-type: none"> <li>• At least a Second Class Honours (Upper Division) degree of TU-K in the relevant field or equivalent from a university recognised by the Senate of TU-K OR</li> <li>• A holder of a Second Class Honours (Lower Division) Bachelor's degree of TU-K in the relevant field, or equivalent from another university recognized by Senate with either at least two (2) years of relevant experience OR a relevant postgraduate diploma/certificate and one (1) year of relevant work experience.</li> </ul>	2 years
<b>Centre for Science and Technology (CSTS)</b>		
Postgraduate Certificate in Research Methods	<ul style="list-style-type: none"> <li>• A holder of at least a first degree of the Technical University of Kenya (TU-K) or equivalent from another recognized university or institution, or any other qualifications recognized by Senate.</li> </ul>	3 months
<b>School of Creative Arts and Media</b>		
Master of Music in Music Education Or African Music Studies	<ul style="list-style-type: none"> <li>• At least a Second Class Honours (Upper Division) degree of TU-K in the relevant field or equivalent from a university recognised by the Senate of TU-K OR</li> <li>• A holder of a Second Class Honours (Lower Division) Bachelor's degree of TU-K in the relevant field, or equivalent from another university recognized by Senate with either at least two (2) years of relevant experience OR a relevant postgraduate diploma/certificate and one (1) year of relevant work experience.</li> </ul>	2 years
Master of Musical Arts in Composition Or Performance	<ul style="list-style-type: none"> <li>• At least a Second Class Honours (Upper Division) degree of TU-K in the relevant field or equivalent from a university recognised by the Senate of TU-K OR</li> <li>• A holder of a Second Class Honours (Lower Division) Bachelor's degree of TU-K in the relevant field, or equivalent from another university recognized by Senate with either at least two (2) years of relevant experience OR a relevant postgraduate diploma/certificate and one (1) year of relevant work experience.</li> </ul>	2 years
<b>School of Hospitality and Human Ecology</b>		
Doctor of Philosophy in Hospitality Management	<ul style="list-style-type: none"> <li>• A holder of a Master's (Thesis Option) degree of TUK in Hospitality Management or related field</li> <li>OR</li> <li>• A holder of a Master's (Thesis Option) degree Hospitality Management or related field from another institution recognized by Senate.</li> <li>OR</li> <li>• A holder of a Master's (Non-Thesis Option) degree in Hospitality Management or related field from TUK or another institution recognized by Senate</li> <li>• A candidate may be required to take a pre-qualification exam in special circumstances</li> </ul>	A Minimum of 3 Years
Doctor of Philosophy in Fashion Design and Technology	<ul style="list-style-type: none"> <li>• A relevant Master's degree of TU-K or of another university or institution recognized by Senate</li> <li>OR</li> <li>• A candidate enrolled for a Master's Degree in TU-K for at least one year who has, to the satisfaction of the Senate, shown exceptional progress in the research work to merit upgrading</li> </ul>	3 Years (Full-time) 7 Years (Part-time)
Doctor of Philosophy in Textile Technology	<ul style="list-style-type: none"> <li>• A relevant Master's degree of TU-K or of another university or institution recognized by Senate</li> <li>OR</li> <li>• A candidate enrolled for a Master's Degree in TU-K for at least one year who has, to the satisfaction of the Senate, shown exceptional progress in the research work to merit upgrading</li> </ul>	3 Years (Full-time) 7 Years (Part-time)

## ONLINE APPLICATION PROCEDURE:

1. Create an Account with us or sign in if the account is already created on the student portal;
2. Enter your personal details to obtain a **REFERENCE NUMBER** which is in the form of **APP/xxxxx/2021**;
3. Enter your academic qualifications and upload scanned copies of the corresponding certificates or result slips. Please note that result slips for examinations taken more than two years ago will not be accepted;
4. Pay the application fee of KES 2,000 for Diploma/undergraduate programmes, KES 3,000 for post-graduate programmes and KES 3,600 for foreign applicants. These payments should be made through **MPESA Paybill number 5236153** and account number should be your application **REFERENCE NUMBER** obtained in 2. above. The payment will be confirmed automatically after 24 banking hours;
5. After the elapse of 24 banking hours, return to this portal, log in and choose your preferred programme of study; thereafter,
6. **SUBMIT** your programme of choice and wait for the selection process to be concluded. Meanwhile, you are advised to frequently log in, using your account details, to establish the status of your application.

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