



Newsletter

July/September 2021

The Official Newsletter Of The Association Of Technical Universities & Polytechnics In Africa



CAPA-ATUPA International Conference to be held Virtually

...Conference virtually between 30-31 August 2021.

In order to stimulate exchanges of experience and ideas, the Association regularly organizes and provides forums for discussion of matters of common interests.

The Commonwealth Association of Technical Universities and Polytechnics in Africa (CAPA-ATUPA) Secretariat will organize its 2021 International Conference virtually.

The Pan-African organization was created out of a decision taken on August 29, 2019, at the CAPA General Assembly of Heads of Member Institutions in Kigali, Rwanda.

Its mandate is to support professional and skill development amongst its membership mostly drawn from TVET institutions in Africa.

And in order to stimulate exchanges of experience and ideas, the Association regularly organizes and provides forums for discussion of matters of common interests.

Initially the Association of Technical Universities and Polytechnics in Africa (ATUPA), it is hitherto known as the *Commonwealth Association of Technical Universities and Polytechnics in Africa (CAPA)*.

continued to Page 5...

CAPA-ATUPA members states



BOTSWANA



GAMBIA



GHANA



KENYA



LESOTHO



MALAWI



MAURITIUS



NAMIBIA



NIGERIA



RWANDA

ATUPA SG Lauds KATTI for its Support

CAPA-ATUPA successfully introduced its maiden online newsletter three months ago attracting a wide readership from members and partners. I wish to take this opportunity to thank members and partners for supporting CAPA-ATUPA initiatives and the Secretariat for their commitment and hard work.

This newly added outfit is in response to members' interest particularly in sharing news and developments from member institutions. With the experience gained in the publication of the first issue, the Secretariat is proud to present the second periodic newsletter. We hope you have realized the added new features, an array of interesting and informative articles by members complementing news from the Secretariat.

With Covid-19 not slowing down, educational institutions continue to explore strategies and innovative ideas to mitigate the spread of the pandemic whilst ensuring continuity of teaching and learning. During this period, CAPA-ATUPA will continue to use this medium to implement its mandate through its readership as an avenue of constructive engagement. As we continue to receive more articles from members for this second issue, I encourage more members to contribute stories of recent events and developments from their various institutions in subsequent issues.

After six months of collaborative work, the AUDA-NEPAD and GIZ Initiative with CAPA-ATUPA on the digitizing of TVET training material for Youth Employability Skills Training has completed its first phase. The training material shall be available as Open Education Resources (OERs) courseware and launched at the AUDA-NEPAD's African Skills Portal for Youth Employment and Entrepreneurship (ASPYEE) and the Atingi platforms for the benefit of the youth of Africa. The TVET students, on completion of the training which is at no cost, shall receive a Certificate of completion which they can add to their Curriculum Vitae.

Another significant highlight of CAPA-ATUPA's activities is the planned virtual international conference scheduled from 30-31 August this year on the theme: "The Future of Jobs: Training, Workforce Development, and Reskilling Africa". Plenaries, panel discussions, and the Pan-African



Mrs Jahou Samba Faal,
SECRETARY GENERAL ATUPA

With Covid-19 not slowing down, educational institutions continue to explore strategies and innovative ideas to mitigate the spread of the pandemic whilst ensuring continuity of teaching and learning

Youth Forum are some of the exciting activities lined up for the event.

CAPA-ATUPA is currently engaged in frantic efforts to enhance its partnerships and increase membership considering the recent growth trajectory for the TVET sector in the continent. This strategic direction will also enhance the new dispensation of transforming the organization into a continental one.

Finally, I take the opportunity to send our esteemed readers best wishes. Stay safe and be healthy. **#SelfCare**

Editorial Team

PUBLISHER/EDITOR
Mrs. Jahou S. Faal

CONSULTANT EDITOR
George Sunguh

ADVERTISING
Catherine Odero

Mr. Johannes Kioko Muoka
Ms. Mildred Nafula Simiyu
Mr. Alexander Wamonje
Ms. Mildred Nafula
Ms. Sylvia Muteshi Imbali

Concept, Design & Layout
Media Concept Limited
Email: info@mediaconcept.co.ke

For more information:
Please visit the CAPA website,
www.capa-sec.org
or The CAPA Secretariat
Tel: +254-20-3343672/251300;
Cellphone: +254-792-688383;
Email: info@capa-sec.org



CAPA-ATUPA Secretary General lauds KATTI Members

The Commonwealth Association of Technical Universities and Polytechnics in Africa (CAPA-ATUPA) Secretary General Mrs Jahou S. Faal has lauded members of the Kenya Association of Technical Training Institutes (KATTI) for their steadfast support to her organization and its programmes.

She was speaking when she paid a courtesy call on KATTI chairperson and principal of Nairobi Technical Training Institute, Mrs Glory Mutungi on March 1, 2021, accompanied by Senior Programmes Manager at the association's secretariat, Johannes Kioko.

The SG briefed Mrs Mutungi on the Digital Employability and Entrepreneurship Skills Development project which CAPA-ATUPA was implementing in partnership with GIZ under the AUDA-NEPAD's Skills Initiative for Africa (SIFA).

Mrs Mutungi expressed hope that KATTI members would continue supporting the association by paying their subscription arrears, noting that this stream of revenue was more important to the association now taking into consideration that it did not hold its annual conference in 2020.

She expressed hope that KATTI members would continue supporting the association by paying their subscription arrears, noting that this stream of revenue was more important to the association now taking into consideration that it did not hold its annual conference in 2020.

The SG thanked Mrs Mutungi for her support to women in Technical

Education and Development (WITED) in Kenya and expressed hope that this support by KATTI would be sustained and deepened.

Mrs Mutungi while receiving the SG, recalled that it was her third visit to the institute which like many others in Kenya, was trying to cope with the new normal situation brought about by the Covid-19 pandemic.

She informed the SG that the institution would hold its research conference on the first week of August 2021.

The KATTI membership, she noted, were very supportive of CAPA-ATUPA and its programmes and that having missed the 2020 annual conference, the members looked forward to the 2021 conference, albeit virtually.

continued to Page 4...



...continued from Page 3



Mrs Glory Mutungi
KATTI chairperson &
principal
Nairobi Technical
Training Institute

Top organ meets as bid to revitalize WITTED continues

The 3rd national executive committee meeting of Kenya's Women in Technical Education and Development (WITTED) was held at the Kabete National Polytechnic on June 26, 2021, with the main focus being on revitalization of the body.

The association is one of the pioneer projects initiated by the Commonwealth Association of Technical Universities and Polytechnics in Africa (CAPA) way back in 1988.

While in its initial stages, the association was faced with the challenge of inadequacy in the number of women enrolled in technical and vocational education.

This prompted it to carry out a survey to assess the factors accounting for this low female enrolment and participation in planning, management and implementation of technical education and training in its member institutions.

Hence in 2019, the association's secretariat embarked on revitalizing WITTED in Africa, through a wide range of consultations, beginning with Kenya Chapter.

Among the proposals made from the consultations was to have principals of TVET institutions nominate a WITTED champion from their respective institutions.

This was aimed at taking advantage of the new dispensation whereby some institutions in Kenya have been upgraded to provide technical education at higher levels, with a number of women appointed to key positions at these institutions.

continued to Page 6...

The principal explained that there were reshuffles at the end of year 2020 which affected a number of KATTI principals and that the decision by the SG to make the round of visits was timely.

Mrs Faal thanked her host for the warm reception and appreciated the pledge for support from the KATTI chairperson.

She said she had come to know of the reshuffle of KATTI members and that after the long and challenging period of the ongoing Covid-19 pandemic, she saw it fitting to make the round of tours to meet the principals to show solidarity and readiness to continue the common agenda.

The SG presented her host with the association's membership certificate and noted that the secretariat would from now on issue annual certificates to paid-up members to encourage fidelity to the body.

While acknowledging the award of the certificate, Mrs Mutungi assured the SG that she would be available to accompany her in making a courtesy call on the new Principal Secretary of Vocational and Technical Training at the Ministry of Education, Dr Margaret Mwakima.

...continued from Page 1

The theme of the conference scheduled for August 30--31, 2021, is: "The Future of Jobs: Training, Workforce Development and Reskilling Africa."

The association's executive board resolved to hold the conference virtually after it was realised that travelling for the association's conferences was not foreseeable in the year. The conference was not held last year (2020) due to the outbreak of the pandemic.

The conference will, however, still feature all the components as has been the tradition of the association's international conferences - with speakers, organisers and attendees scattered in various locations across the African continent; but connected virtually.

The key objectives of the conference are: To enhance transferability of skills and qualifications and cross border movement by vocational education and training graduates; raise awareness on the need for increased enrolment of women and the youth in TVET; stress the importance of conservation of the natural world by supporting the blue and green economy; and to promote focus in skilling the marginalised and underrepresented.

An organizing committee has been constituted, comprising of members of the association's secretariat and some key partners, to ensure the conference is staged successfully.

The conference features will include:

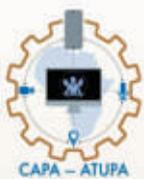
- i. Main conference featuring plenaries, panel discussions and podium sessions on the Conference theme and other cross-cutting issues.
- ii. Virtual launch of the Association of Technical Universities and Polytechnics in Africa (ATUPA).
- iii. Third Pan-African Youth Forum for TVET Students, hosted in partnership with the Africa Union Commission, on the theme: "Building Bridges between TVET and the Workplaces in Africa."
- iv. A virtual Careers fair/exhibition showcasing TVET jobs, industrial technologies and R&D innovations by sponsors and industry/private sector partners, training institutions and research institutes.

v. The General Assembly of heads of ATUPA member institutions and elections of a new Executive Board.

It is hoped that the outcomes of the conference shall go beyond the

repeated formulation of ideas and the rhetoric that has been heard over the years to providing pragmatic strategies and guidelines, even at the policy dialogue level.




AUGUST 2021 CAPA – ATUPA INTERNATIONAL CONFERENCE

Virtual August 30 - 31, 2021

THEME:
"THE FUTURE OF JOBS: TRAINING, WORKFORCE DEVELOPMENT
AND RESKILLING AFRICA"

Conference Hours

07:30 – 13:00 WAT:	Accra, Banjul, Freetown
09:30 – 15:00 CAT:	Johannesburg, Lilongwe, Kigali, Lusaka
10:30 – 16:00 EAT:	Nairobi, Kampala, Dar-es-Salaam

ENQUIRIES
C/O The Technical University of Kenya, Haile Selassie Avenue
P. O. Box 52428 – 00200 NAIROBI, KENYA • Cellphone: +254 712 688 383
E-mail: info@capa-sec.org • Website: www.capa-sec.org

Prof Aduol Steers TUK to Greater Heights

Prof. Francis W. Odhiambo Aduol is the Vice-Chancellor of the Technical University of Kenya and Professor of Geospatial Science and Engineering at the University of Nairobi. He holds BSc (Surveying and Photogrammetry), MSc (Surveying), and MA (Economics) from the University of Nairobi, and Dr.-Ing. (Geodesy) from the University of Stuttgart, Germany. He worked with the Government Survey Department for a short stint before joining the University of Nairobi as a tutorial fellow in 1977. He was appointed to the position of full professor in the University of Nairobi in 2001.

Prof Aduol was the founding Principal of the Kenya Polytechnic University College having been appointed to this position in October 2008. Previously he served in various administrative positions at the University of Nairobi including being the Principal of the College of Architecture and Engineering (1999-2008); Dean, Faculty of Engineering (1995-99) and Chairman, Department of Surveying (1991-95). He has served on numerous university and national committees on higher education and technology. In 2011/2012 he was a member of the National Task Force that prepared the Universities Act, 2012; TVET Act, 2013; and Science, Technology and Innovation Act, 2013.

Prof. Aduol currently serves in the Boards of Kenya Universities and Colleges Central Placement Services and Higher Education Loans Board. Recently, he was appointed by Association of Commonwealth Universities to sit in its Regional



Prof. Francis W. Odhiambo Aduol
Vice-Chancellor of the Technical University of Kenya

Committee for East, Central, and Southern Africa.

Prof. Aduol's area of specialisation is geodesy in which he has published widely. Previously he served as a corresponding member of the International Association of Geodesy (IAG) in the area of statistical techniques in geodesy. Besides his professional line, he also has interest in the area of higher education staffing and financing in which he has consulted and published internationally. He is a member of the Institution of Surveyors of Kenya and is a Licensed Professional Surveyor in Kenya.

...continued from Page 4

It was noted that only a few institutions such as Kenya Coast National Polytechnic (KCNP) had endeavoured to keep WITED vibrant in their institutions.

The association is, therefore, not only determined to revitalise WITED Kenya

Chapter, but also achieve the following:

- Develop strategies that enhance the participation of women in Technical

- Education at all levels for economic empowerment;

- Undertake research and publication of female participation in technical education and training;

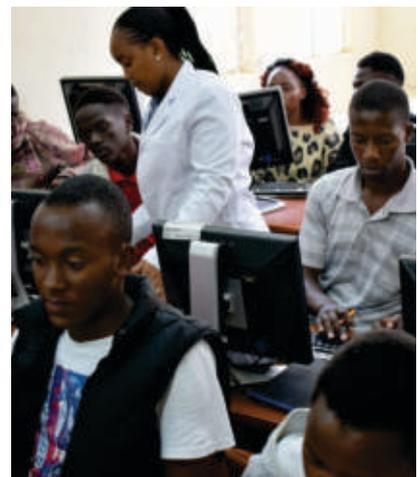
- Raise awareness on gender issues at member institutions through conferences, workshops and training forums;

- Reinforce and implement equal opportunities through institutional support system, community life, and governmental measures and programmes addressing social and human equality.

- Develop partnerships, collaborations and linkages with WITED country chapters in Africa, development partners such as African Union Commission, Commonwealth of Learning, International Labour Organisation, gender and equality bodies, and education ministries.

- Put in place structures and policy framework to ensure women participation in all TVET programmes; and

- To do everything possible within the association's powers to achieve its mandate in implementing WITED programmes.



Sigalagala - the Ultimate Yardstick for CBET

Various institutions are making bench-marking trips to learn how to transform lives and livelihoods through academics, research and innovation

To stay ahead of the pack, Sigalagala National Polytechnic has taken Competency-based Education and Training (CBET) programmes in its academic units to the next level.

The institution assesses trainees based on the Curriculum, Development and Certification Council (CDACC) guidelines, which has seen other TVET institutions turn to it for benchmarking to learn best practices and general compliance guidelines.

The effective implementation is attributed to the continuous training segments on the CBET Assessment intended to churn out competent and skilled manpower by the polytechnic to the industry.

Apart from teaching and learning, Sigalagala has a robust and dedicated research and innovation team with proven capacity and reputation in creativity. In this respect, the polytechnic has realised major milestones and exemplary performance at various TVET research and innovation exhibitions and robotic contests.

It is through the biennial international conferences that Sigalagala shares a platform with industry players and other external stakeholders, and steers knowledge exchange.

The polytechnic boasts of numerous papers that have been published in the *Journal of Research and Innovation*.

Additionally, the staff development programme builds capacity in research, innovation, and intellectual property rights.

The Polytechnic is among the few institutions that host a Technology and Innovation Support Center (TISC) in collaboration with the Kenya Industrial Property Institute (KIPI) through which its trainees' intellectual property is protected.

To actualise the CBET agenda, the Polytechnic ensures that the skills gained by trainees are helpful to industry, where select student projects are picked up for implementation and full-scale production.



**Mr. Evans O. Bosire,
Principal/Governing Council Secretary,
Sigalagala National Polytechnic**

The Department of Agriculture is currently undertaking an applied research project titled: "Intelligent Solar PV Powered Drip Irrigation System in Shinyalu South," co-funded by Canadian partners under KEFEP programme.

The project is expected to augment the Government's concerted efforts to ensure national food security and also equips trainees with the much-needed skills for post-qualification practice.

The polytechnic is also developing an organic fertiliser plant for commercial production, which will generate revenue for the institution once completed.

As a technical college, the expertise exhibited by the institution transcends academics and research. Its various other departments are not left behind, and have established production units.

The Department of Fashion and Design makes uniforms, dust coats, and curtains to meet supply chain demands from various institutions. The Department of Institutional Management has intensified commercial bread and confectionery production, whereas the Department of Applied Sciences manufactures hand

sanitizers — both for the institution's use and for sale. The Department of Mechanical Engineering fabricates desks for schools and also runs a driving school that is duly registered by the National Transport and Safety Authority.

Moreover, in the efforts to augment containment of the COVID-19 pandemic, the polytechnic has been offering solutions such as producing and supplying the neighbouring colleges and counties with branded facemasks and fabricating and installing hand-washing equipment.

And with the support of the Government through Ministry of Education, the Polytechnic's Department of Electrical and Electronic Engineering received state-of-the-art equipment from CICA, as part of the Kenya Education For Employment Programme (KEFEP) initiative. The equipment is to facilitate training and excellence in renewable energy, especially solar PV technology.

The polytechnic also has a long-standing reputation in co-curricular activities and has been participating in and winning trophies and medals during national and regional drama and music festivals, as well as in sporting activities and scouting.

The institution is thus a Launchpad for trainees to identify their talents and build their careers.

About the College

Sigalagala is a TVET-accredited public managed national polytechnic founded in 1950 as a technical and vocational training institute.

It is located along the Kisumu-Kakamega Road, and has nearly 10,000 trainees enrolled in various academic programmes within an environment that is conducive for holistic quality training.

The institution is mandated to offer courses at Certificate, Diploma and Higher Diploma levels; and produces middle-level human resource well-equipped with technical and business skills required in the industry.

Staff Development Scheme at Makerere University Business School yielding results

The Makerere University Business School (MUBS) development programme was started in the mid 1990's as the numbers of students increased from about 200 to over 1000. There was an urgent need for staff development, since by that time the institute had a Master's degree programme in Business Administration. As a result, all the teaching assistants that the institute had were recommended to undertake this programme depending on the year they joined. Hence, by 1998 when MUBS was created, the staffing issue at the master's level was under control.

The school then decided to start standalone degrees in Finance and Accounting, Marketing, Entrepreneurship and Leadership with a view to developing staff in those areas and the programme did very well and as of today, the school has capacity to handle about 95% of its master's programmes requirements although it is unable to pursue degrees in real-estate where it takes the staff to Nairobi.

Today the school is comfortable in as far as putting its staff through master's programmes since they are run internally.

The institute, however, realised then that it also had a major deficiency at the doctoral level.

At Makerere University, most of the staff pursuing doctoral programmes were funded by scholarships from abroad. Some of the major donors are the Germany government, GIZ, Japan, the Commonwealth Association of Universities and others like India. However, it was very difficult to secure a scholarship for the staff in MUBS therefore the institute decided to start a homegrown programme and invited various academicians including Prof Munene, the late Prof Ahianzu from Nigeria, Prof Francis Kibera, Prof Peter Kubonyo and Prof Leticia Otasuria from Dar-es-salaam University, all who were key in the commencement of the doctoral programmes. The first graduates were Prof Ntayi, Prof Bakunda and Prof Ssejaaka, and the



**Prof. Waswa Balunywa Balunywa,
Principal, Makerere University
Business School, Uganda**

institute is very proud of their performance.

Subsequently, Prof Munene and Prof Ahianzu led the PhD studies in MUBS which has resulted in graduating over 80 students from Makerere University, a number of others have graduated from different universities in the US, Australia,

Nairobi, Dar-es-salaam and we now have over 100 PhD graduates though some of them have left the institution. Over 100 are pursuing their PhDs both internally and in other universities and we have possibly over 150 different staff pursuing different master's programmes in the school, so the programme has been very successful by all standards.

So, we appreciate the efforts of the different individuals, Deans and all those who have made this major contribution to ensuring that the MUBS PhD is successful.

Not only academic staff have benefitted by also the administrative staff and as we write now, we have about five (5) members of administrative staff pursuing different doctoral programmes and we are saying that if

these people are handling PhD holders, then they themselves should also be able to have a PhD or pursue one.

Moving on From Traditional Approaches: The Realities about Reskilling in the finance space

Stephane Kasriel, the CEO of Upwork said: "The future of work won't be about degrees," "More and more, it'll be about skills." According to the a recent McKinsey Global Institute report, by 2030 approximately 14% in various sectors- financial services inclusive may need to switch occupational categories as digitization, automation, and advances in artificial intelligence disrupt the world of work. This means that the kinds of skills companies require will shift, with profound implications for the career paths individuals will need to pursue. These facts caught my eye and inevitably motivated this piece of writing from the finance perspective. The question is how big is that challenge in terms of magnitude, speed,



**Rachel Mindra Katoroogo, PhD
Head of Finance Department, MUBS**

“The future of work won't be about degrees, More and more, it'll be about skills - Ms. Stephane Kasriel

preparedness of both individuals, training institutions like MUBS, employers, government etc. and then what needs to be done? In this article I make reference to my profession but also has got me thinking how relevant I am or will be five years today...

Faced with a growing talent and skills challenge, the leadership in the finance space are now reassessing their traditional workforce model while exploring innovative ways to harness a more expansive yet cost effective talent ecosystem. We are aware that technology is advancing at a rate faster than ever before. It is not only FinTech, blockchain, cryptocurrency, and artificial intelligence (AI). We are now thinking finance in a digital world and the so called "trust economy" where we transact and engage pretty much virtually- trust being absolutely relative. In today's fast-evolving workplace and notwithstanding the awakening effects of the covid-19 black-swan, accounting and finance professionals must demonstrate everything from razor-sharp analytical ability and stellar interpersonal skills to a sharp understanding of industry-standard

software.

In the past few months, the black swan has accelerated the digital transformation of all industries, and, in particular, finance. Adapting to our digital world is now, therefore, more critical than ever, as we have seen things change swiftly. The Coursera Global Skill index survey found that, the finance industry in particular is still ill-prepared for a digital revolution. For an industry where technology is a radical disruptor, we see a tremendous breach in terms of current skill and knowledge on business and finance. The gap and lack are indeed alarming. It was further found that besides the black swan effects, the evolving customer habits, cost-related pressures and shifting regulatory policies are the major drivers of this skills gap in the industry. Indeed, the financial institutions that will thrive in the future will be those that can flexibly work alongside intelligent technology, coupling that technology with the human touch with the right skillset.

What does this process look like? It might consist of something as simple as having ongoing and or mixed digital training for all new software products-

MUBS has a significant role to play in the reconstruction of the transformational workforce. Customer habits are changing, employees are being recognised as stakeholders, governance, risk and compliance impacts due to the pandemic have added pressure to adapt to new rules of doing business. In the process, a growing proportion of existing roles are being rendered obsolete. Yet, new skill-sets and rapid digital transformation initiatives offer potential to replace legacy ways of doing work with greater agility, efficiency and resilience and at lower costs. The various players and digital leaders need to ensure the foundational elements of finance's digital transformation that is data governance, workflows, and collaboration receive sufficient attention, funding and improvements, along with a diverse labour portfolio to support them. These next-generation capabilities will be crucial especially when the next global disruption materializes.

It is no longer about the why but about the how to reskill and remain relevant in the changing times.

Planning to Publish Magazines, Newsletters, Brochures, Guides, Handbooks, Catalogues and other Marketing Materials in Print and Digital formats?

Talk to the Experts!

mediaCONCEPT

ADVERTISING | PUBLICITY | PR | MARKETING | PUBLISHING

info@mediaconcept.co.ke

[+254] 722 703 971



PICTURE
SCENE







Sang'alo's Innovative Student Projects Continue to Attract Local and International Attention

ABOVE: SIST Innovations

Student innovations at SIST show the potential and resolve of young people to contribute tremendously to the provision of green solutions for the sake of our planet

Industry players in Kenya and beyond borders are keeping a watchful eye at the potential exhibited by young students at Sang'alo Institute of Science and Technology.

The Bungoma-based institute has been nurturing skill and talent over the years, with numerous award-winning student projects either being incubated or already in commercial use.

Sang'alo Institute of Science and Technology prides itself in research and innovation, with young innovators coming up with projects that have been exhibited at local national and international science and technology fairs.

In TVET fairs and robotics contests, the college has consistently performed well. Last year, it was ranked first runners up overall in the regional TVET Fair competitions held in Kisii County.

On the international stage, SIST made a maiden presentation in Cairo, Egypt,

followed by a similar presentation in Kigali, Rwanda. The subject of these presentations is the now-famous *Tosoi* energy drink, whose formula was prepared by a student in the Department of Food and Beverages.

Some of the projects that have put the institute on the Research and Innovation map include and not limited to;

The solar-powered lawn-mower— a machine that uses energy from the sun to cut grass — took top position in both regional and national TVET contests. The project has been patented and is currently undergoing incubation at the Chandaria Foundation at Kenyatta University. At the contests, the innovator attributed the efficiency of the lawn-mower to its environment-friendliness, cost-effectiveness and ability to eliminate pollution that arises from fossil fuels and noise.

Talking of “solar,” the solar irrigation system is also a product of SIST's

innovation. It uses solar energy to charge a battery connected to a motor pump. It has the ability to draw water from a well as deep as 38 metres below the surface, and the pump is able to discharge water at a rate of over 600 litres per hour, and has the potential to be upgraded, so as to be suitable for large-scale irrigation.

The hydro-welding machine is an innovation that uses water and salt to weld metals. It was innovated at SIST in the year 2020, and was ranked first in regional TVET fair. Due to its simplicity, the machine is projected to be cost-effective and environmentally-friendly once mass production is realised.

The novel coronavirus disease (COVID-19) visited terror on the world, and was declared a global pandemic at the advent of the year 2020. This caused the world population to adapt to the new normal. Part of the new normal included finding practical solutions to everyday problems. This caused students at SIST to design an automatic hand-washing



SIST ladies soccer team

machine.

This is a small simple machine that uses sensors to detect human activity at the hand-washing station, upon which it opens the tap to allow running water through. The sensor will close the tap the moment the human walks away from the tap.

About the Institute

Sang'alo Institute of Science and Technology is a leading institution in tertiary education, and offers creative and industry-driven academic programmes.

It is located in Bungoma County, Kenya, seven kilometres south-east of Bungoma Town on the Bungoma-Nambacha highway.

The institute has steadily continued to grow in enrolment and teaching and

learning infrastructure. It boasts of the fact that 90% of our graduates are absorbed in the job market due to exemplary performance and relevance of their fields of study.

The institute is ISO 9001:2015 certified and is also a national centre for excellence in Agriculture.

SIST has a wide range of academic programmes examined by various examination bodies, and is proud to be associated with national institutions such as KNEC, NITA, KASNEB and TVETA.

CONTACT:

Sang'alo Institute of Science and Technology

P.O. BOX 158, BUNGOMA.

Tel: 0711158158/0103669393

Email: sangaloist@yahoo.com



SIST Innovation Clothing Department

A Round-up of Innovations at the Nyeri National Polytechnic

The Nyeri National Polytechnic has developed and sustained a culture of research and innovation across several disciplines.

The students have innovated a solar-driven smart car, an automatic hand sanitiser dispenser, password-based circuit breaker, non-contact temperature reader, portable handwashing station, paralysis patient assistance device, universal animal feed chopper, a combined maize thresher and a cob grinding machine.

The polytechnic organised its premier international research conference in 2020.

It also received state-of-the-art equipment from the Government that facilitated the production of 5,000 cabs; and the new dairy farm has developed two CBET curricular.

Amidst the outbreak of the COVID-19 pandemic, the polytechnic, in collaboration with the County Government of Nyeri, engaged 80 tailors and produced over 100,000 face masks, which were distributed to the local community.

And to ensure seamless learning, the Polytechnic implemented an e-learning platform and an e-library, and also provided free Internet data to the trainees.

The institution also won a hand-wash detergent production competition funded by Colleges Institutes Canada, and produced 5,000 litres of hand-wash detergent, which was distributed to the national polytechnics across the country.

Another milestone has also been the construction of a Sanatorium with a capacity of 9 beds fabricated by its trainees and staff.

Farmers Study Food Security Strategies at Friends College Kaimosi

At least 250 farmers from the Western region of Kenya are to undertake a nine-month training at Friends College Kaimosi (FCK) to improve their farming skills.

This initiative is in collaboration with GIZ, a German Federal development agency, and will focus on the development of tea, banana and indigenous vegetable, and poultry and dairy value chains.

The success of the project will see more farmers in the region trained on better farm productivity with successful candidates further qualifying for start-up capital as an incentive for self-reliance.

According to the college principal, the institution is being transformed into a centre for excellence in Competency-based Education and Training (CBET), as part of the grand strategy to achieving food security in the country.

The programme has also attracted the attention of the County Government of Vihiga, which in conjunction with GIZ, has offered mentorship and internship placement opportunities to the farmers after the training, to add impetus to the hands-on skills that they will have acquired.

Friends College Kaimosi is ideal for the project, thanks to its close proximity to the expansive tea plantations and continued involvement in agricultural activity in the region. The College's resolve to augment the fight against hunger also played a pivotal role in the implementation of the initiative.

The college has also initiated various income-generating activities in some of its academic units as a way of generating additional revenue for the institution to back up Government funding.

The income-generating projects are designed to incorporate students as a

way to hone their skills and prepare them for the industry and possible self-employment.

The students undertaking Certificate and Diploma courses in Catering and Accommodation and Food and Beverage Production and Service are, for example, now offering catering services within the institution and also outside catering services for wedding ceremonies, corporate events and even funerals.

Friends College Kaimosi continues to use these initiatives to actively engage with the Government and other community-based organisations to improve food security as one of the major pillars of the Big-Four Agenda set out by the President of the Republic of Kenya.

College Profile

Friends College Kaimosi is a public TVET institution in Kenya under the Ministry of Education Science and Technology.

It was founded in 1971 through the

East African yearly meeting of the Friends Church, the local community meetings of the Friends Church and friends in the United States of America and the United Kingdom.

It is one of the oldest institutes of technology in Kenya and remained under the full sponsorship of the Quaker Church until 1981 when it was taken up by the Government as a public institution.

The College offers 63 courses at Higher Diploma, Diploma, Craft Certificate and Artisan Levels. The enrolment has grown tremendously and it currently has a population of 3,265 students.

Contact:

Kaimosi College of Research and Technology

P.O Box 150-50309, Tiriki

Email: info@fck.ac.ke

Tel: 0712604008/0735818311

0704686363

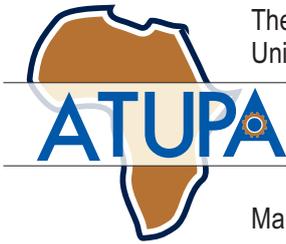
Website: www.fck.ac.ke



ATUPA Membership Drive

THE TECHNICAL UNIVERSITY OF KENYA

Be part of the Association of the Technical Universities & Polytechnics in Africa with ATUPA membership



The Commonwealth Association of Technical Universities and Polytechnics in Africa (CAPA), is a Pan-African organization that was established following a resolution of the 7th Commonwealth Conference of Education Ministers that was held in Accra, Ghana in March 1977, with a mandate to support professional and skills development and to promote policy

advocacy in favour of technical and vocational education and training (TVET). Since the inception of CAPA, the Government of the Republic of Kenya has been hosting the Secretariat of the association at The Kenya Polytechnic, now The Technical University of Kenya located in Nairobi.

Aims & Objectives of CAPA

- To stimulate exchanges of experience and ideas by providing a forum for discussion of matters of common interest and arranging meetings, conferences and seminars.
- To study and help improve the content and methods of teaching in polytechnics and comparable institutions and in particular the associated curricula and also to help improve the organization and management of such institutions.
- To disseminate information and publications about matters of interest to member institutions, about the member institutions themselves and about education in particular subject areas.

To apply for membership please email: info@capa-sec.org



Please visit our website for more information:

www.capa-sec.org

VIRTUAL CAPA-ATUPA International Conference

30th - 31st August 2021 (GMT+3)



The Commonwealth
Association of Technical
Universities & Polytechnics
in Africa

THEME:

“The Future of
Jobs: Training, Workforce
Development & Reskilling
Africa.”

REGISTER ONLINE

PARTNERS



CAPA-ATUPA members states



SENEGAL



SIERRA-LEONE



SOUTH AFRICA



SEYCHELLES



SWAZILAND



TANZANIA



UGANDA



ZAMBIA



ZIMBABWE