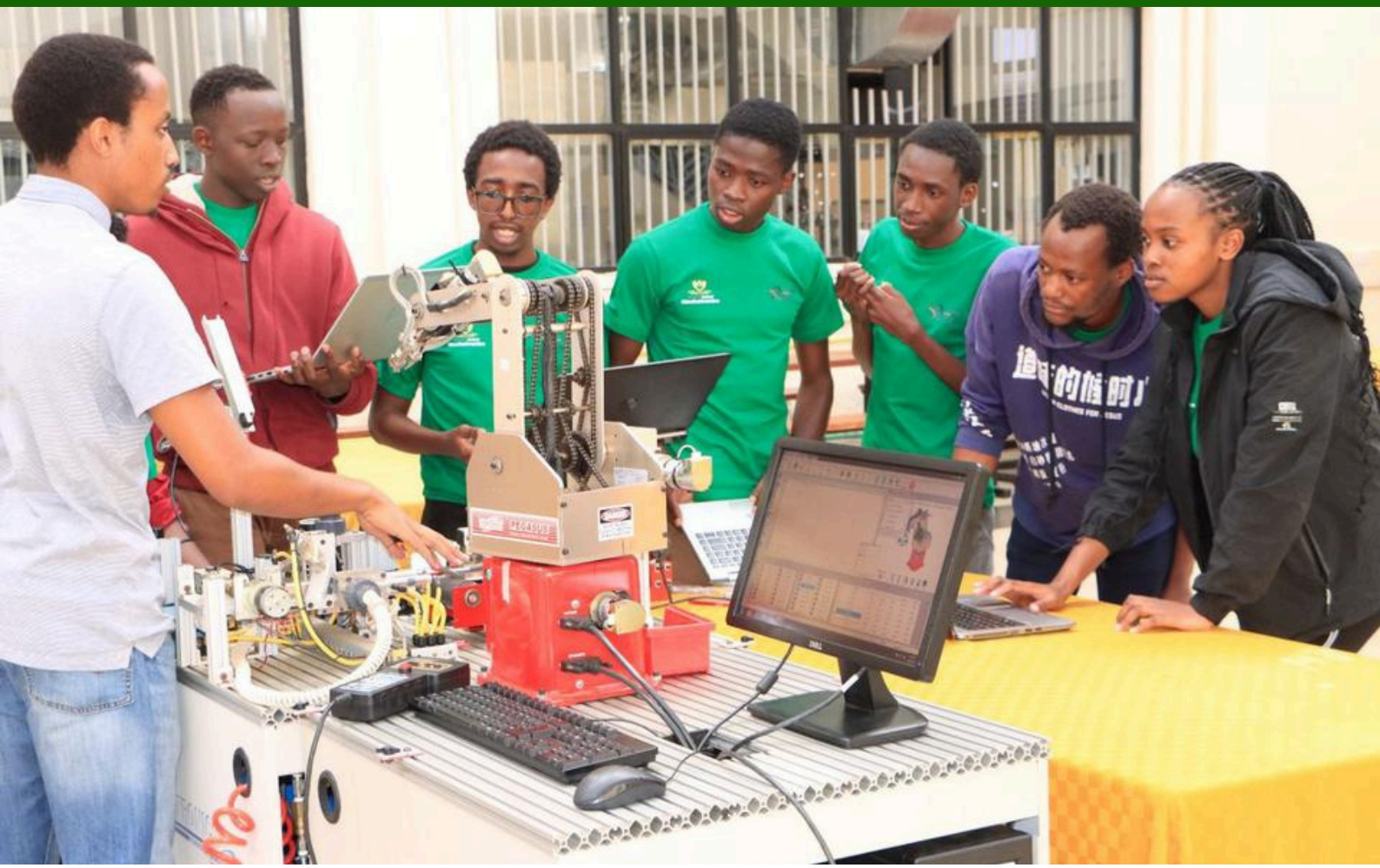
MONTHLY NEWS BULLETIN

Better Life through Technology; ISSUE NO 67, AUGUST 2024



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DeKUT and KEFRI Unveil a Revolutionary Machine Advancing Sustainable Resource Management in Kenya



We are pleased to have launched a revolutionary machine developed in collaboration with the Kenya Forestry Research Institute (KEFRI). This innovation represents a significant advancement in Kenya's ongoing efforts toward sustainable resource management and is a testament to what can be achieved through strategic partnerships.

The machine is designed to enhance efficiency in resource management. It is the result of a successful collaboration between KEFRI and DeKUT. It exemplifies how advanced engineering and scientific research can be integrated to address pressing national challenges. This machine embodies our commitment to sustainable environmental practices by supporting our national strategy to harness technological advancements.

DeKUT's expertise in engineering and technology played a critical role in this development, ensuring that the machine meets the specific needs of our national resource management agencies. This project highlights the pivotal role of academia in fostering innovation and demonstrates the powerful potential of academic institutions in tackling the most critical issues facing our nation.

This partnership with KEFRI underscores the importance of collaborative efforts in driving national development. It sets a new benchmark of how academic and national organization partnerships can deliver practical, impactful solutions to our challenges.

DeKUT's Path Towards Sustainability



DeKUT, through its Center for Energy Studies (DeCES), has taken a significant step toward fostering sustainability by implementing energy-efficient cooking solutions at its Maankuli Center kitchen. This initiative focused on upgrading from traditional bell-view cookstoves to modern rocket stoves, reflecting the University's dedication to sustainability and reducing environmental impact. The decision to modernize the kitchen facilities was a significant step towards improving resource efficiency and embracing sustainable practices. The new rocket stoves have dramatically cut down on firewood consumption, reducing the need for a full pick-up load every two days to every six days. This not only conserves resources but also sets a promising precedent for future sustainability initiatives.

In partnership with GIZ through the Jiko Kisasa program, DeCES has successfully transformed the kitchen's work environment. The rocket stoves have created a healthier and more pleasant atmosphere by significantly reducing smoke output. These stoves, with a thermal efficiency of 43%, represent a considerable improvement over traditional cookstoves. The lower fuel consumption is expected to bring substantial cost savings, a reassuring sign of the financial benefits of sustainability. This project signifies the beginning of a more significant shift towards energy-efficient cooking solutions across DeKUT, marking a pivotal moment in the University's sustainability efforts.



Furthermore, this project is not just a local initiative but a global one. It aligns with several United Nations Sustainable Development Goals (SDGs), strengthening DeKUT's commitment to global sustainability initiatives. This alignment connects our efforts at DeKUT with a more significant global movement towards sustainability.

1. Affordable and Clean Energy: The rocket stoves have cut fuel consumption by approximately 300%, optimizing resource use and providing cleaner cooking options.
2. Climate Action: By burning fuel more efficiently, the stoves significantly lower greenhouse gas (GHG) and carbon dioxide (CO2) emissions, aiding in the fight against climate change.
3. Life on Land: With a reduced need for firewood, the stoves help preserve forest resources, supporting sustainable land use.

The success of this project at the Maankuli Center kitchen is a testament to DeKUT's commitment to sustainable energy solutions. It enhances the kitchen's operational efficiency and highlights the University's broader focus on environmental conservation. DeKUT is proud to share this achievement with the community, hoping it will inspire similar sustainability initiatives both within and beyond the University. As DeKUT looks ahead, this effort underscores the importance of adopting energy-efficient technologies and minimizing the carbon footprint, actively contributing to a greener, more sustainable future for generations to come.

DeKUT Hosts the National WorldSkills Kenya 2024



The WorldSkills National Competition 2024 was successfully hosted at Dedan Kimathi University of Technology (DeKUT), bringing together the brightest minds in Mechatronics and Mechanical Engineering Computer-Aided Design (CAD). This prestigious event highlighted the importance of fostering critical skills among the youth, industries, government, and educational institutions. The competition created a unique platform to unite stakeholders in a collaborative effort to nurture the talent that will shape the future of our nation.

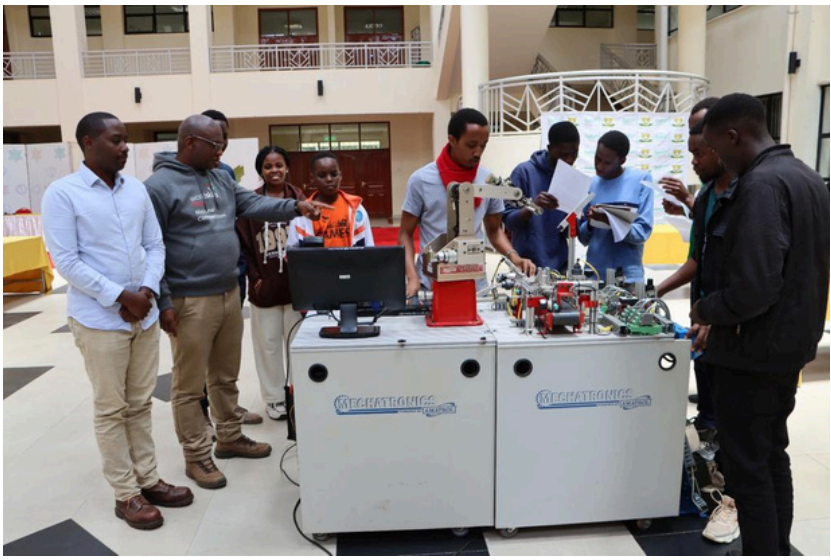
DeKUT's unwavering commitment to cultivating an environment where talent is identified and developed was a pivotal factor in the WorldSkills National Competition 2024 success. More than just a talent search, the competition recognized participants with diverse skill sets essential for driving innovation and progress. The event was a clear testament to the University's dedication to enhancing educational experiences and preparing the youth for the dynamic world of technology and engineering.

DeKUT proudly celebrated the victory of Joshua Nyandwaki and Ray Wekesa, who secured Gold in the Mechatronics category. Silver was awarded to Andrew Juma and Frankline Owiye from Kiambu National Polytechnic, while Kinoti Mutugi Marvin and Felix Mugira from Mukiria Technical and Training Institute earned third place.The Mechanical Engineering CAD category also saw impressive performances. Mulwa Amos Sila from DeKUT clinched the Gold medal, with Julia Wambui Kamau from Kisii National Polytechnic taking home the Silver medal. These participants' success reflects their dedication and the bright future that awaits them in their respective fields. DeKUT remains honoured to have hosted this remarkable event and looks forward to witnessing the continued achievements of these talented individuals.

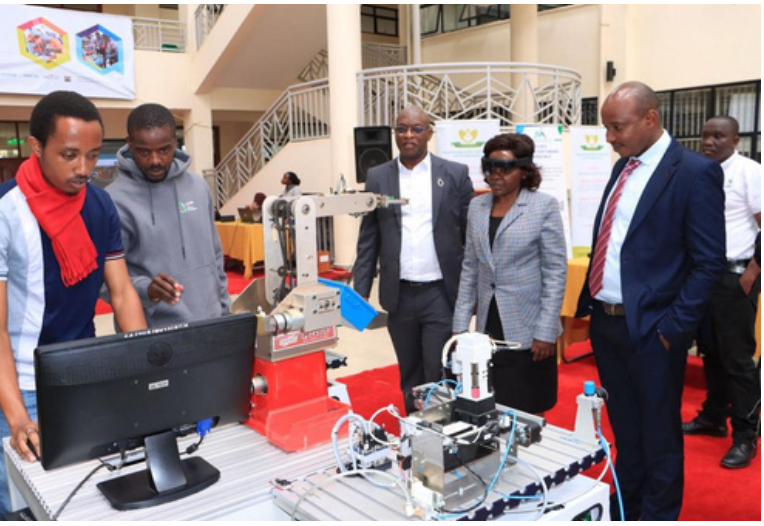
Congratulations to all participants for their outstanding contributions to the competition. Your success is a testament to the incredible potential of our youth and the promising future of innovation and excellence in Kenya.



Some of the participants using Virtual Reality



Participants listening
to their trainers



The DVC A&F Prof. Esther Magiri
experiencing Augmented Reality



Participants listening to their trainers



A group photo of the participants, their trainers and
the DVC A&F Prof. Esther Magiri

DeKUT Hosts IndabaX Kenya Summit 2024



DeKUT was honoured to host the IndabaX Kenya Summit 2024, a dynamic three-day event that brought together 150 participants on-site and an additional 100 attendees online. Centered around the theme "Unlocking the Potential of Artificial Intelligence," the summit became a remarkable platform for exchanging ideas, insights, and innovations aimed at driving AI advancement across Africa.

This year's IndabaX Kenya Summit offered participants a chance to explore AI's transformative potential in addressing challenges across the continent. Discussions focused on delivering scalable solutions for resource-limited economies and exploring AI applications in education, technology, health, and agriculture sectors. The summit prioritized skill-building and training, ensuring that Africa remains a leader in AI development and implementation.

A key highlight of the event was the "Artificial Intelligence for Africa" session, which emphasized the importance of creating AI solutions tailored to Africa's unique challenges.Participants embraced a spirit of collaboration, exploring how AI can address local issues and foster innovation that benefits communities throughout the continent.

The summit also featured an exciting hackathon, where participants developed cutting-edge AI solutions, showcasing the technology's potential to reshape Africa's future.

The IndabaX Kenya Summit 2024 provided a platform for impactful presentations, stimulating discussions, and valuable networking opportunities that will impact Africa's AI landscape. Participants were passionate about leveraging AI's power to create a brighter future for the continent. DeKUT also celebrated several outstanding individuals for their exceptional contributions to AI research and development, presenting awards for Academic Excellence, Breaking Academic Barriers, and African AI Research. These trailblazers have set a new standard in the AI community and serve as an inspiration to others.

DeKUT is proud to play a leading role in this crucial journey, helping to shape the future of technology on the continent.



The DVC A&F presenting a gift to one of the winners



Participants listening to a procession



Participants listening to the procession

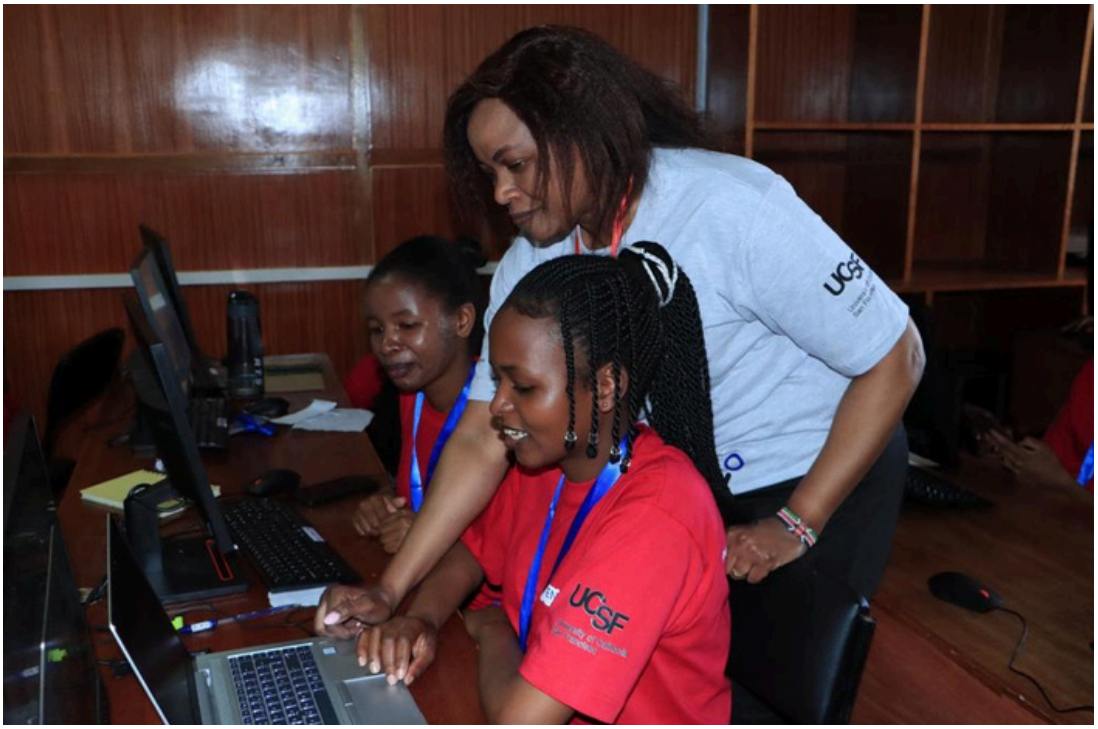


Participants listening to the procession



A group photo of the participants, their trainers and the DVC A&F Prof. Esther Magiri

The ENGAGE Project: Empowering Girls in Artificial Intelligence and Data Science



DeKUT proudly congratulates the exceptional young women who have completed their training through the ENGAGE Project—ENabling Girls in AI and Growing Expertise. From August 5th to 30th, 2024, these dedicated participants immersed themselves in the world of data science, focusing on how they can apply their newfound skills to address pressing public health challenges within their communities. The project, designed to empower young women by providing them with cutting-edge AI and data science knowledge, has been a resounding success. By integrating practical learning with real-world applications in public health, the participants were equipped with technical expertise and a vision to impact their communities' health and well-being positively.

The young women displayed unwavering dedication and commitment throughout the training to mastering complex concepts and applying them to tangible issues. Their journey has been truly inspiring, reflecting the resilience and determination required to thrive in the rapidly evolving fields of AI and public health. DeKUT is confident that these exceptional young women will continue to make significant contributions to their communities, driving transformative changes and emerging as leaders in their respective fields. We eagerly look forward to witnessing their future achievements and the positive impact they will undoubtedly have on society.

Once again, congratulations to the graduates of the ENGAGE Project!



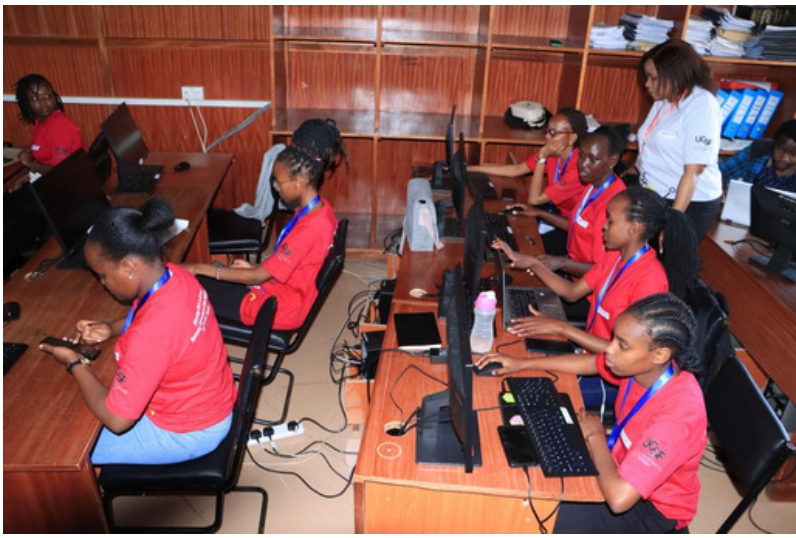
Some of the students in the computer lab during the training



Dr. Jane Kuria guiding one of the students



Some of the participants listening to the procession



Some of the participants listening to the procession



A group photo of the participants with their trainers

DeKUT Participates in the Kenya National Research Festival 2024



DeKUT is elated to have been part of the impactful Kenya National Research Festival 2024 in Nairobi, an event that promotes collaboration. The festival, with its strategic design to showcase the diverse spectrum of research activities in Kenya and internationally, provided a conducive space for domestic and international cooperation, instilling principles of robust research leadership and elevating the overall research culture.

The festival was distinguished by its primary focus on interdisciplinary and multidisciplinary research, and its significant role in promoting sustainable development through research. It encompassed current and future initiatives aligned with and contributing to realising the United Nations Sustainable Development Goals (SDGs), making it a beacon of hope for all of us in this vital mission.



DeKUT hosts the University of Nairobi and the Kenya National Innovation Agency



DeKUT was delighted to host representatives from the University of Nairobi (UoN) and the Kenya National Innovation Agency (KeNIA) for a comprehensive peer evaluation exercise on the Entrepreneurial Institutional Maturity Framework (EIMF). This collaborative effort underscores DeKUT's unwavering commitment to fostering an entrepreneurial ecosystem that supports innovation, research, and economic development.

The peer evaluation, conducted in partnership with UoN and KeNIA, focused on assessing and advancing DeKUT's maturity in institutional entrepreneurship. The EIMF framework, designed to evaluate how well Universities support entrepreneurial activities, is critical for promoting innovation-driven growth within higher education institutions. Through this exercise, DeKUT, UoN, and KeNIA explored ways to strengthen the infrastructure and support systems that nurture entrepreneurship among students, staff, and the wider community

The evaluation brought together key stakeholders from each institution, enabling valuable discussions on best practices, challenges, and growth opportunities. By participating in this peer review process, DeKUT demonstrated its proactive approach to building a robust entrepreneurial culture that aligns with Kenya's broader national development goals.

DeKUT is committed to further developing its entrepreneurial framework, leveraging insights from this exercise to enhance its support for innovation and entrepreneurship. This initiative is a step forward in realizing DeKUT's vision of becoming a leading institution that drives sustainable development through education, research, and entrepreneurship. The collaboration with UoN and KeNIA underscores the importance of institutional partnerships in achieving these goals and strengthening Kenya's innovation ecosystem.

DeKUT Partners with Emory University's Global South Initiative for Groundbreaking Research on Household Energy and Cardiovascular Health



As a Premier University of Technology, DeKUT is pleased to join forces with Emory University's Global South Initiative (GSI) for a one-year research collaboration to impact our community. This project, which focuses on the critical intersection of household energy use and cardiovascular health in Kenya, exemplifies our commitment to research that brings about positive societal change. By pairing two scholars from our School of Nursing (SON) with Emory's GSI team, we are enhancing research capacity and fostering meaningful mentorship.

This partnership, which aims to enhance research capacity and mentorship, involves five prominent African Universities.



Australian Deputy High Commissioner Chris Ellinger Visits DeKUT and Semiconductor Technologies Limited



The Australian Deputy High Commissioner to Kenya, Chris Ellinger visited DeKUT, during his recent visit to Semiconductor Technologies Limited (STL), which is hosted by the University's Science and Technology Park.

During his visit, Mr. Ellinger also had the opportunity to interact with the WorldSkills Kenya National competitors at DeKUT. His visit was completed with him planting a commemorative tree at the DeST-Park.

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