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KENYA WATER INSTITUTE KEWI Fountain Of Water Knowledge

WEEKLY Newsletter

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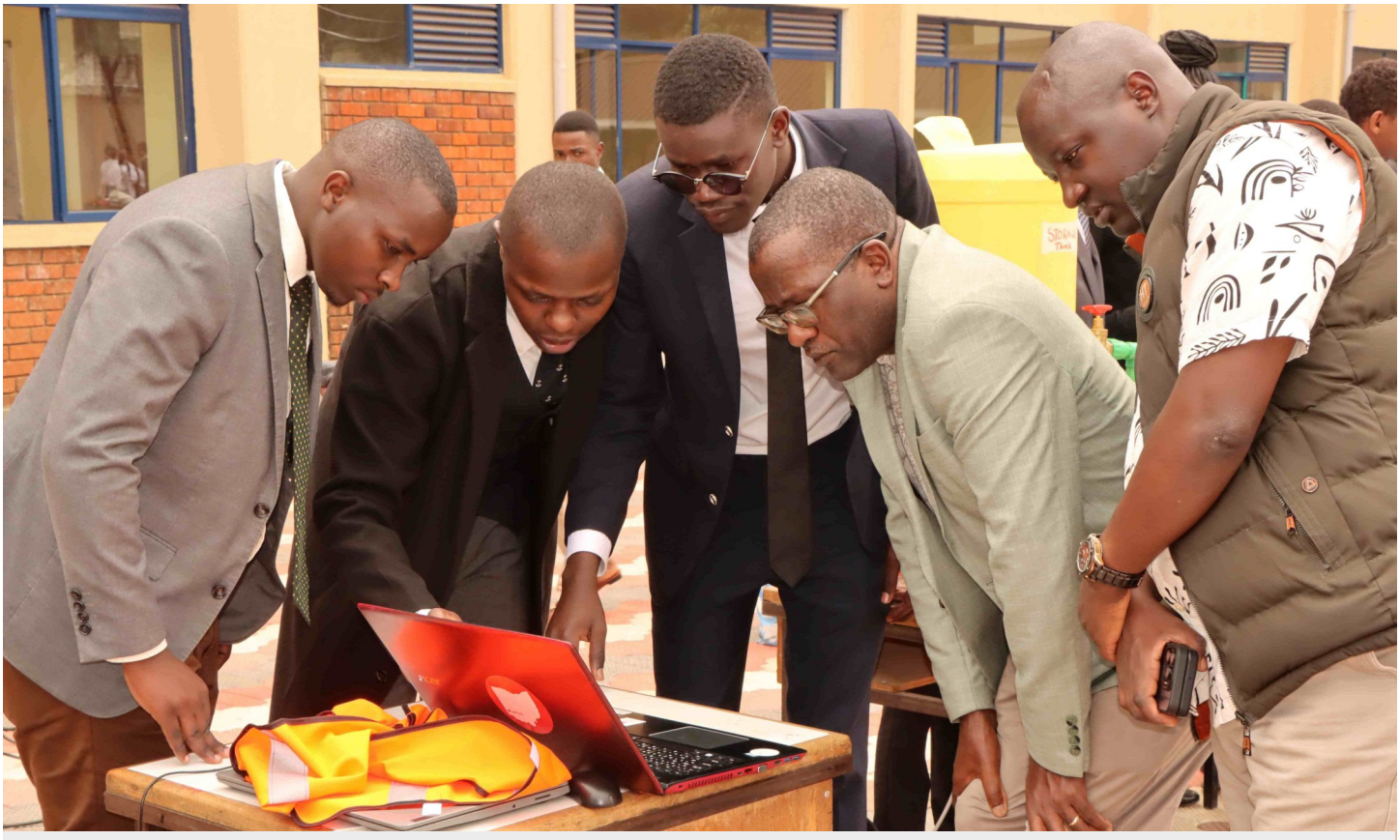
Final-Year Water Engineering Students Showcase Their Innovative Projects



Deputy Directors Mr. Eric Wamiti – Academic Affairs and Mr. Nelson Kwamini – Research, Consultancy and Technical Services, keenly follow as a student explains on functionality of a project on display. Students showcased their innovative projects as part of a requirement for the award of their graduation qualification.

BY: BRITNEY MOKEIRA

In the wake of roll out and implementation of Competency-Based Education and Training (CBET), a training approach to education focused on developing practical skills and knowledge aligned with industry standards, final-year students have showcased their engineering projects, marking a key milestone in their academic journey.

The projects reflect a wide spectrum of innovation and practical thinking—ranging from solutions for flood control and sustainable water management to creative approaches that promote efficient water use in irrigation. These projects are serving as a testament to the hands-on practical training that KEWI offers to its students, emphasizing the importance of applied

HIGHLIGHTS

Final-Year Water Engineering Students Showcase Their Innovative Projects

knowledge in solving the country's water-related issues.

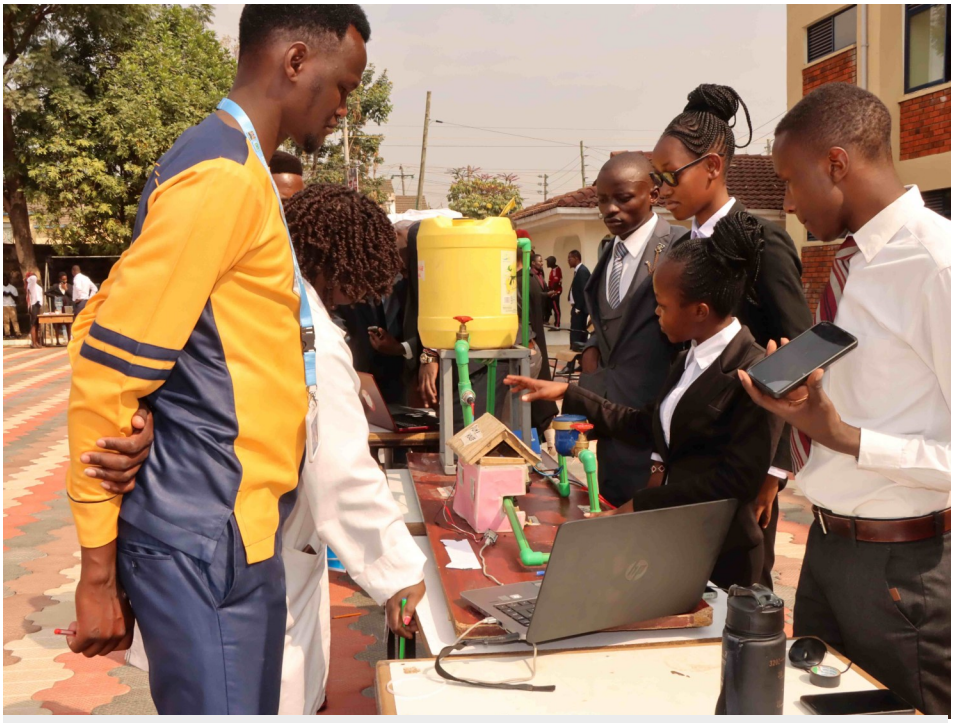
Beyond the technical demonstrations, some students have taken a bold step further by aligning their projects to issues that are currently the debate in the water sector: management of Non-Revenue Water (NRW).

Aligning their concept in tackling the long-standing challenge in the water sector Bramwel Wanzala, Michelle Nanjala, Edwin Mwangi, and Pauline Kavusya have developed "*A Model on Real-Time Pressure Monitoring System*", an innovative project that directly tackles one of the most persistent and costly issues in water distribution systems: pressure management and leak detection.

Explaining the operational ability of the project in water distribution networks, Ms. Nanjala notes that maintaining the right pressure is critical for efficiency when it comes to managing water pipe bursts.

"Low pressure can result in inadequate supply to consumers, while excessive pressure can lead to pipe bursts and increased non-revenue water (NRW)," She speaks.

"Recognizing this, we designed a low-cost, real-time pressure monitoring system that allows operators to detect and respond to pressure fluctuations quickly and effectively."



Pauline Kavusya explains to project assessor how a component of their project dubbed "A Model on Real-Time Pressure Monitoring System" operates. Final year students showcased different innovative projects that sought to address various challenges in the water, sanitation and irrigation sector.

The model features a technically sound and cost-effective design that uses widely available components. At its core is an ESP32 (NodeMCU-32S) microcontroller connected to a Sensate 35CP pressure transducer with a 4–20 mA output range. This feature acts as the brain of the system, reading the pressure data from the Sensate 35CP pressure transducer by converting its 4–20 mA output into digital signals using an Analog-to-Digital Converter (ADC

Additional components include a mechanical water meter and a surface centrifugal pump used to return water to an elevated storage tank, simulating the function of a real-world water distribution system. The piping system is assembled using Polypropylene Random Copolymer (PPR) pipes and valves, allowing for realistic flow control and system testing.

The pressure transducer is linked to the ESP32, which processes the analog signal and transmits the pressure readings to a digital dashboard built using the Arduino IDE.

The dashboard is accessed via a Wi-Fi connection, provided through a mobile hotspot, and is secured using login credentials to ensure data protection and privacy. The system allows for live monitoring, providing real-

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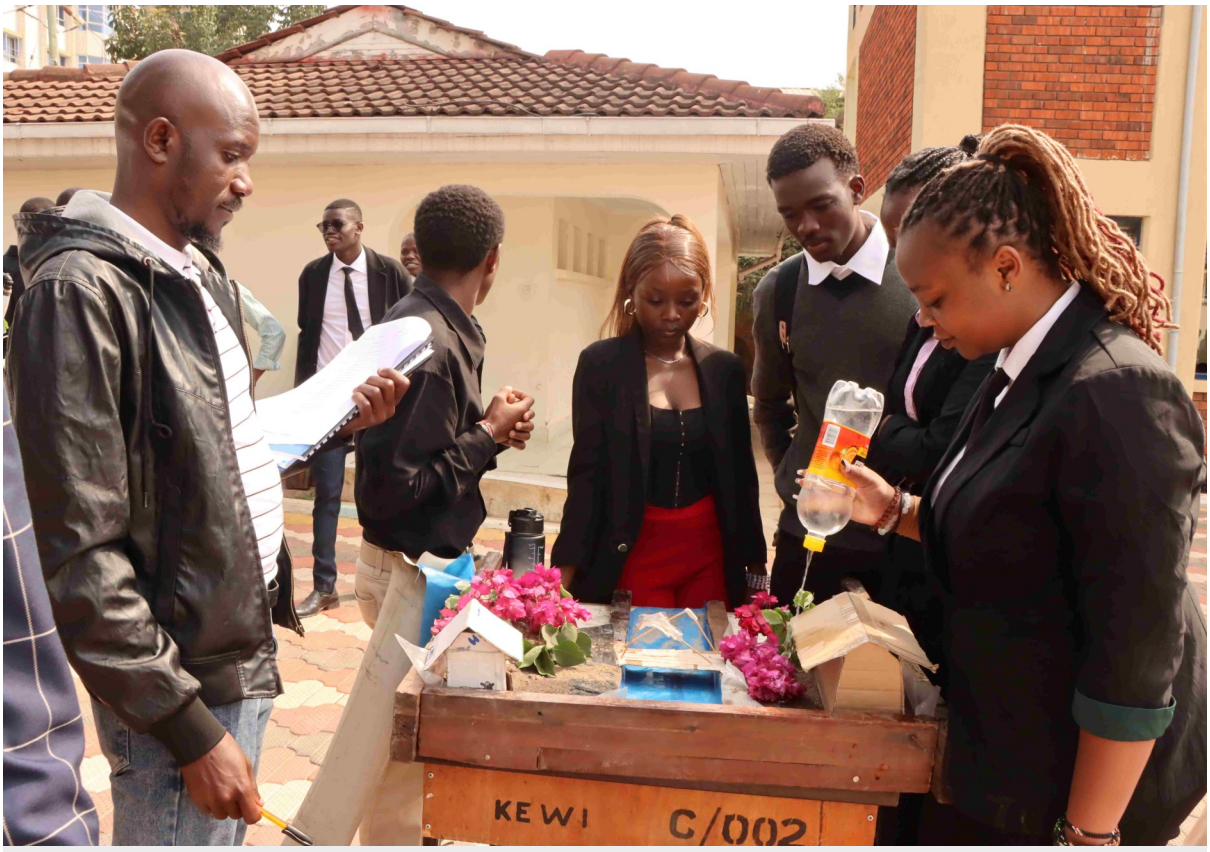


Ms. Wanjiku Ndonga demonstrates a point during the presentation of a project that seeks to address management of flooding as a concept in water management.

time updates on pressure changes within the pipeline.

With the primary objectives of the project being to develop and test real-time water pressure monitoring system, it further helps analyze pressure data as it gets recorded and evaluate how such monitoring could help reduce water loss.

Through a series of tests, the team adjusted valve positions and pump operations to simulate various pressure conditions. The system responded reliably, capturing fluctuations and displaying accurate readings on the dashboard.

Results from the testing phase confirmed the model's potential as a valuable tool for water utilities. It proved to be both stable and responsive under different operational scenarios. The ability to detect pressure surges or drops in real time means that operators can quickly identify issues such as leaks, bursts, or illegal connections, all of which contribute to NRW. Even in its basic form, without full automation or integration into a larger network, the system provides vital data that can guide decision-making in valve management and pipeline maintenance.

The team notes that with further development, the model could be enhanced to include automated alert systems and expanded data analytics, enabling even more proactive water system management.

Such improvements could help utilities respond faster to issues and reduce water loss on a larger scale.

This project not only showcase the students' technical skills and creativity but also KEWI's commitment to training professionals who are ready to address the evolving needs of the water sector. As these students prepare to join the workforce, their work highlights the role that innovation and technology can play in transforming water management in Kenya and beyond.

Their success is a clear indication that with the right guidance, training, and resources, young engineers can become key contributors to national development through sustainable and practical solutions.

Students Embark on Exams as CBET Reforms Shape a Practical, Skills-Based Future

BY: JUDY KARIUKI

A group of students from Kitui Campus engaging in one of the session during their practical test of their end-of-semester assessments.

Students across all campuses of the Kenya Water Institute (KEWI) officially began their end-of-semester examinations on Friday, 1st August 2025—a key academic milestone that reflects the ongoing transformation in technical training under Kenya's Competency-Based Education and Training (CBET) model. The examinations, which will run through Thursday, 14th August, include both theoretical and practical assessments in core disciplines such as Water Engineering, Wastewater Management, and Irrigation Technology.

At the Kitui Campus, emphasis has been placed on discipline, integrity, and commitment to learning.

"We expect students to uphold the values of the institution by avoiding any form of malpractice. These exams are an opportunity to demonstrate the knowledge and skills acquired throughout the semester," noted Mr. George Sato, the Examinations Officer. Academic and support staff worked seamlessly to coordinate room allocations, invigilation schedules, and exam material distribution, ensuring a smooth process for all candidates.

"The preparation has been intense, but I feel ready," shared Sylvia Jeruto, a third-year Water Engineering student. Her sentiment is echoed across campuses, as students use this period to showcase not only their academic competence but also the hands-on skills imparted through CBET-aligned training.

Introduced in the TVET sector to align training with labor market needs, CBET places strong emphasis on practical skills, workplace relevance, and performance-based assessment. According to the Technical and Vocational Education and Training Authority (TVETA), CBET is designed to produce graduates who are "work-ready," ensuring they possess not only knowledge but demonstrable competence in their area of specialization.

At KEWI, this approach is already bearing fruit. Final-year students recently showcased engineering projects developed as part of their coursework—ranging from flood control systems to innovations addressing Non-Revenue Water (NRW). Notably, a student team from the Nairobi campus developed a real-time water pressure monitoring model using microcontrollers and digital dashboards—an example of how applied learning under CBET is equipping graduates to tackle persistent industry challenges.

The current exam period, therefore, goes beyond grading; it serves as a mirror of how effectively the CBET curriculum is being implemented. It also affirms KEWI's growing reputation as a leading center for water-sector training, producing graduates who are both competent and solution-oriented.

As the country continues to invest in practical training and workforce preparedness, KEWI's CBET-driven model is a blueprint for how education can translate into real-time solutions for national development.

Parliamentary Committee on Blue Economy and Water Inspects Ongoing Upgrades at KEWI Nairobi Campus

Members of Departmental Committee on Blue Economy, Water and Irrigation and KEWI Management in a photo after the Hon. David Kangogo Bowen led committee Inspected the ongoing upgrades at KEWI Nairobi Campus.

BY: PIUS KIMANI

The Departmental Committee on Blue Economy, Water and Irrigation, led by Chairperson Hon. David Kangogo Bowen, conducted an inspection visit to the Kenya Water Institute (KEWI), Nairobi Campus to assess the progress of the ongoing modernization of the KEWI complex project.

The team was received by KEWI Governing Council Chairperson Hon. Patrick Musili Mbangula, who urged the committee to support the institute as it continues to strengthen its capacity to effectively deliver on its mandate. During the engagement, KEWI CEO/ Director Dr. Leiro Letangule, EBS, briefed the committee on the strides made in infrastructure modernization and emphasized the need for continued government support to ensure seamless service delivery.

The visiting team was taken on a guided tour of the facilities and updated on both the achievements and the challenges faced in implementing the transformative project.

The highlight of the moment was the team visiting the site where the 12-storey tuition block is coming up. The committee was impressed of the progress made.

KEWI Steps Up the National Tree Growing and Land Restoration Campaign

BY: BRITNEY MOKEIRA

Kenya is taking bold steps to combat deforestation, restore degraded land, and fight climate change. The government has set an ambitious goal of planting 15 billion trees by 2032 as part of the Kenyas Landscape Restoration Initiative. This effort aims to increase the country's tree cover to 30%, protect biodiversity, and safeguard water catchment areas for future generations.

The initiative brings together national and county governments, local communities, development partners, and organizations like the Kenya Forest Service. It focuses not only on planting trees but also on ensuring they are nurtured to maturity, turning seedlings into thriving forests.

In alignment with this national agenda, the Kenya Water Institute (KEWI) has made a firm pledge to plant two million trees by 2030 as part of its Performance Contract deliverables for the FY 2025/2026. This is in direct response to the Presidential Directive on the National Tree Growing and Land Restoration Campaign.

To meet this obligation, KEWI has thus rallied staff and students to actively participate in tree planting exercises, both individually and through institute-organized events.

To ensure proper tracking and accountability, KEWI has scaled up the adoption of the JAZAMITI mobile application, available for free on Android and iOS. The tool allows users to log each tree planted, including its location, species, and a photo, ensuring accurate reporting and monitoring of our progress. By further taking part in KEWI's scheduled tree planting events and encouraging colleagues, friends, and family to join, the institute seeks to ensure that they have planted and grown its share of trees before the financial year 2025/2026 ends as required by the directive.

Developed by KEFRI Kenya, JAZAMITI is a smart, user-friendly platform that helps identify the most suitable tree species for a specific location. By analyzing factors such as climate, soil type, and elevation, it recommends the best trees to plant. It also offers information on each species' characteristics, uses, and care guidelines, helping ensure that planted trees survive and thrive.

The app's tracking feature lets users monitor the growth of their trees over time, creating both personal and institutional records of contributions to Kenya's tree cover.

To use the application, users are needed to first download the JAZAMITI App from their device's app store and then create an account, and when planting a tree document it on behalf of the institute. The app requires that once planted, the person planting to log every tree planted, with complete details and photos.

Tree planting helps restore ecosystems, combat climate change, improve air quality, conserve water resources, and support local livelihoods. By participating, KEWI shall be contributing to a greener, healthier, and more resilient Kenya. JAZAMITI App is on Google Play Store or iOS App Store for download. Together, we can restore our landscapes, protect our environment, and secure a sustainable future.

Kewistus Toilets Technology, KEWIs Innovation that offers Solution to Societal Needs

BY: PIUS KIMANI & ENG. ERASTUS MAITAI

At the sidelines of the ongoing Maasai Mara University Research and Innovations Conference, an event aimed at bridging the gap between research findings and practical solutions in health, environment, and climate action across Africa at the university in Kajiado county, The Kenya Water Institute (KEWI) is exhibiting its sanitation innovation—Kewistus Toilets Technology. This is in addition to research dissemination on "*Assessing Farmers' Perceptions of Humanure Use in Tharaka Nithi and Kajiado Counties for Agricultural and Agro-Forestry Sustainability.*"

Developed in response to continued dual challenges related to access to sanitation facilities by a vulnerable segment of the population and inadequate sanitation and open defecation in many parts of the country, the new sanitation technology is aimed at addressing wholistically the need to bring all people on full advantage of sanitation technologies.

Led by Engineer Erastus Maitai Murathi, Water Drilling and Treatment Technician, the KEWI team is focusing on practical solutions that respond to the realities of people living in underserved and off-grid areas. According to Engineer Murathi, unimproved sanitation and open defecation remain key concerns in Kenya, especially for groups such as the elderly, persons with disabilities, and children who may be unable to access distant sanitation facilities. The Kewistus Toilets Technology was developed in response to these challenges and observed gaps.

Engineer Erastus Maitai Murathi, showcasing the Kewistus Toilet Technology that has been developed by KEWI at the ongoing Maasai Mara University Research and Innovations Conference.

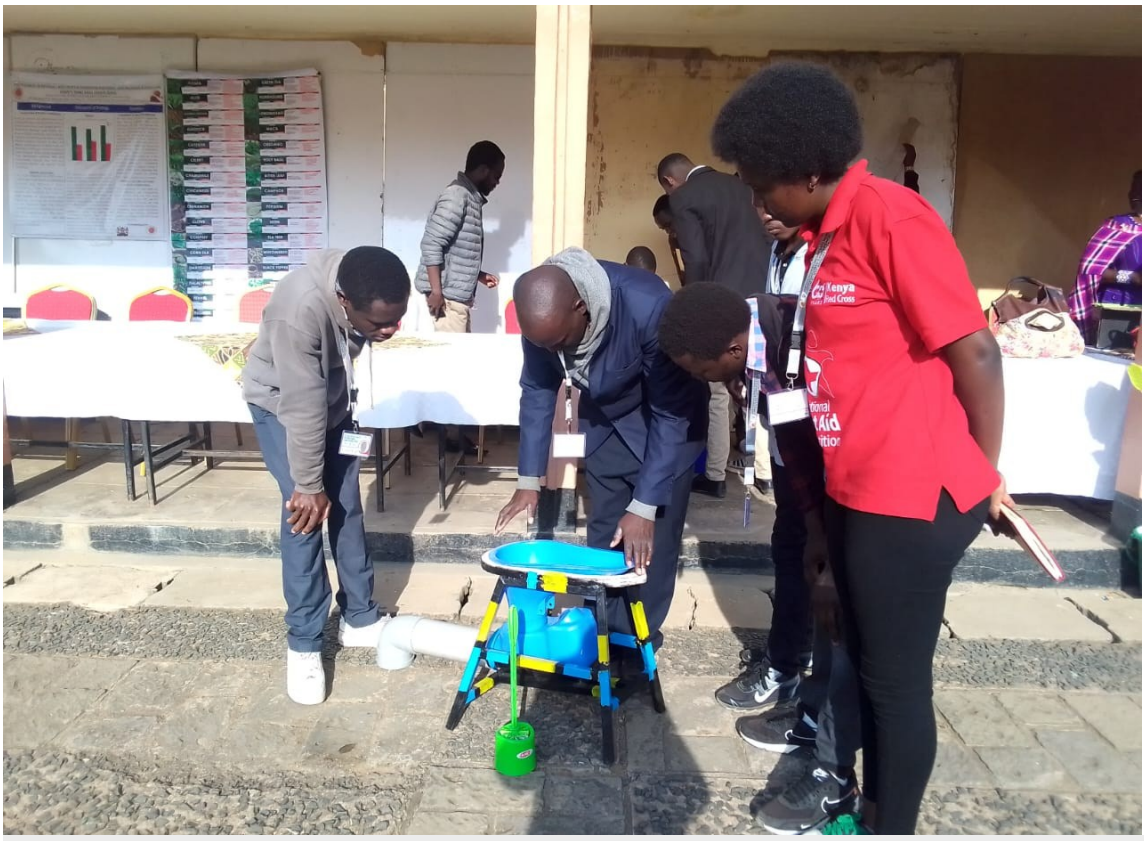
The technology is an adaptation of the Safe Toilets (SATO) pit latrine system that KEWI implemented in 2023 through a project funded by the African Development Bank (AfDB). The original system uses a blue plastic pan with a squattal lid installed on a concrete slab over a pit. It is designed to open and close during use, reducing odors and insect contact. While effective in improving hygiene, the original model did not fully consider users with physical limitations such as joint problems or mobility difficulties, especially in rural areas without sewer systems.

Based on field feedback, researchers at KEWI's Kisumu Campus under the Engineering Club of Research and Innovations (EcoRi) developed the Kewistus model to address these gaps. The new design maintains the basic SATO functionality but introduces a stool to allow users to sit in squatting position. This improves safety, comfort, and usability for those with

Kewistus Toilets Technology, KEWIs Innovation that offers Solution to Societal Needs

physical challenges. The toilet can be installed inside the home and does not require a piped water connection, making it suitable for off-grid households.

The Kewistus Toilet includes mounted features such as a toilet paper holder, toilet brush, and a handwashing point. The pan uses minimal water, and its non-stick surface allows waste to slide down with ease.



Engineer Erastus Maitai Murathi, showcasing the Kewistus Toilet Technology that has been developed by KEWI at the ongoing Maasai Mara University Research and Innovations Conference.

Waste is biologically treated to produce humanure, which can be safely used in agriculture, supporting sustainability in both sanitation and farming.

The design also offers a safer solution for early childhood development (ECDE) centres. Unlike traditional pit latrines that have caused injuries due to collapsing slabs, the Kewistus model does not require concrete slabs and is child friendly. In addition, the system prevents groundwater contamination, a common problem with conventional pit latrines.

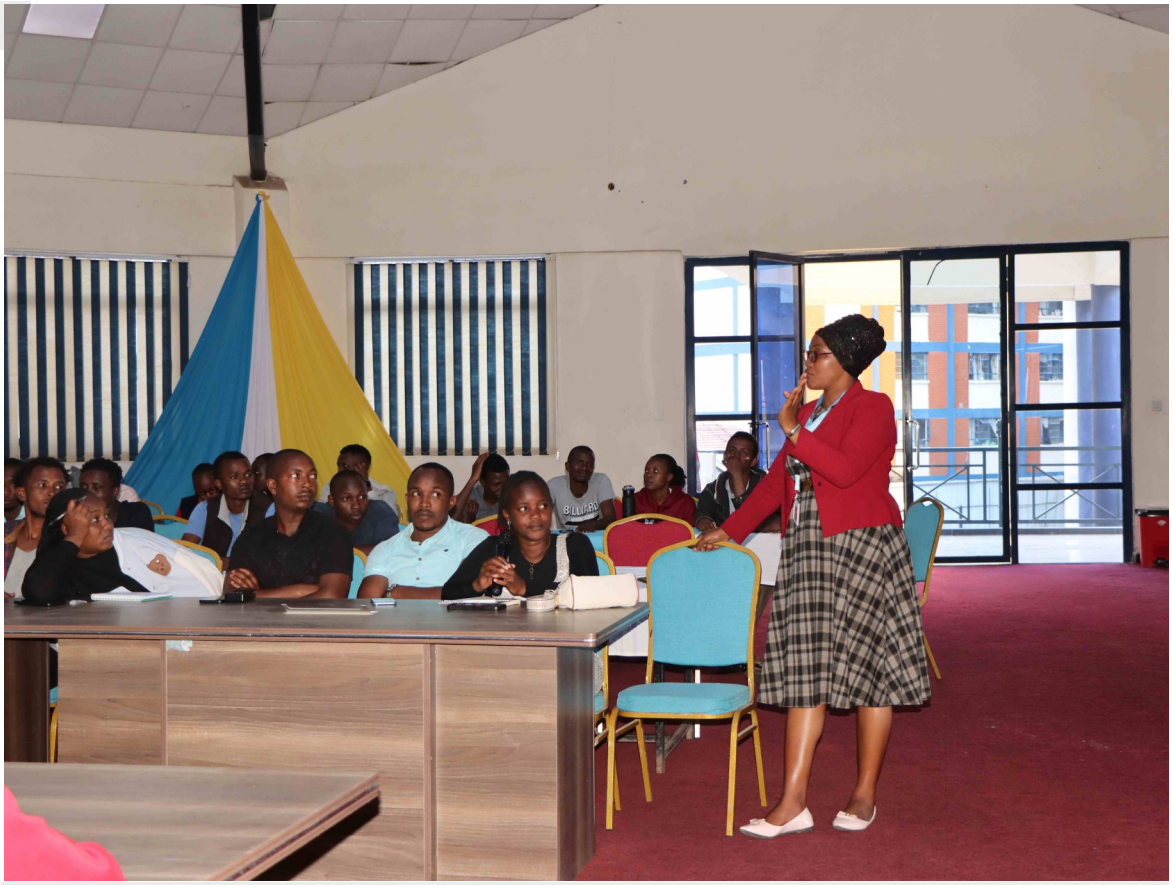
The technology, registered with the Kenya Copyright Board (KECOBO) as KEWI's intellectual property is made using locally available materials, making it affordable and easy to customize depending on household needs. The production and installation processes also provide employment opportunities, particularly for youth and women.

The innovation responds to key gaps observed in the earlier SATO project. With the new model being more suitable for individuals with mobility limitations and catering to users who were previously left out of sanitation planning, it has helped close the usability, accessibility and inclusion gap. It has further helped offer a solution that works well in remote areas with limited infrastructure by using lessons from the field to improve and adapt existing technologies.

By developing and showcasing the Kewistus Toilets Technology, KEWI is reinforcing its role as a national centre for research and innovation in water and sanitation. The Institute continues to prioritize practical solutions that meet real societal needs while responding to the changing sanitation landscape. Through inclusive and sustainable innovations, KEWI is contributing to improved public health, environmental protection, and community resilience.

Diploma Students Guided on Professionalism and Best Practices Ahead of Attachment

BY: FAITH TAUNET



Ms. Veronicah Muhia explaining how different assessment documents are used during the industrial attachments sensitization to students who are set to proceed on their attachments.

"A little more persistence, a little more effort and what seemed hopeless failure may turn to glorious success." – ***Elbert Hubbard***

As diploma students in levels 3.2, 2.2, and 1.2 prepare to embark on their industrial attachments, the Kenya Water Institute (KEWI) held a comprehensive briefing session aimed at equipping them with practical guidance for a successful placement. The session, led by Mr. Feisal Hassan, focused on professionalism, workplace ethics, documentation, and national responsibilities such as the tree-growing campaign.

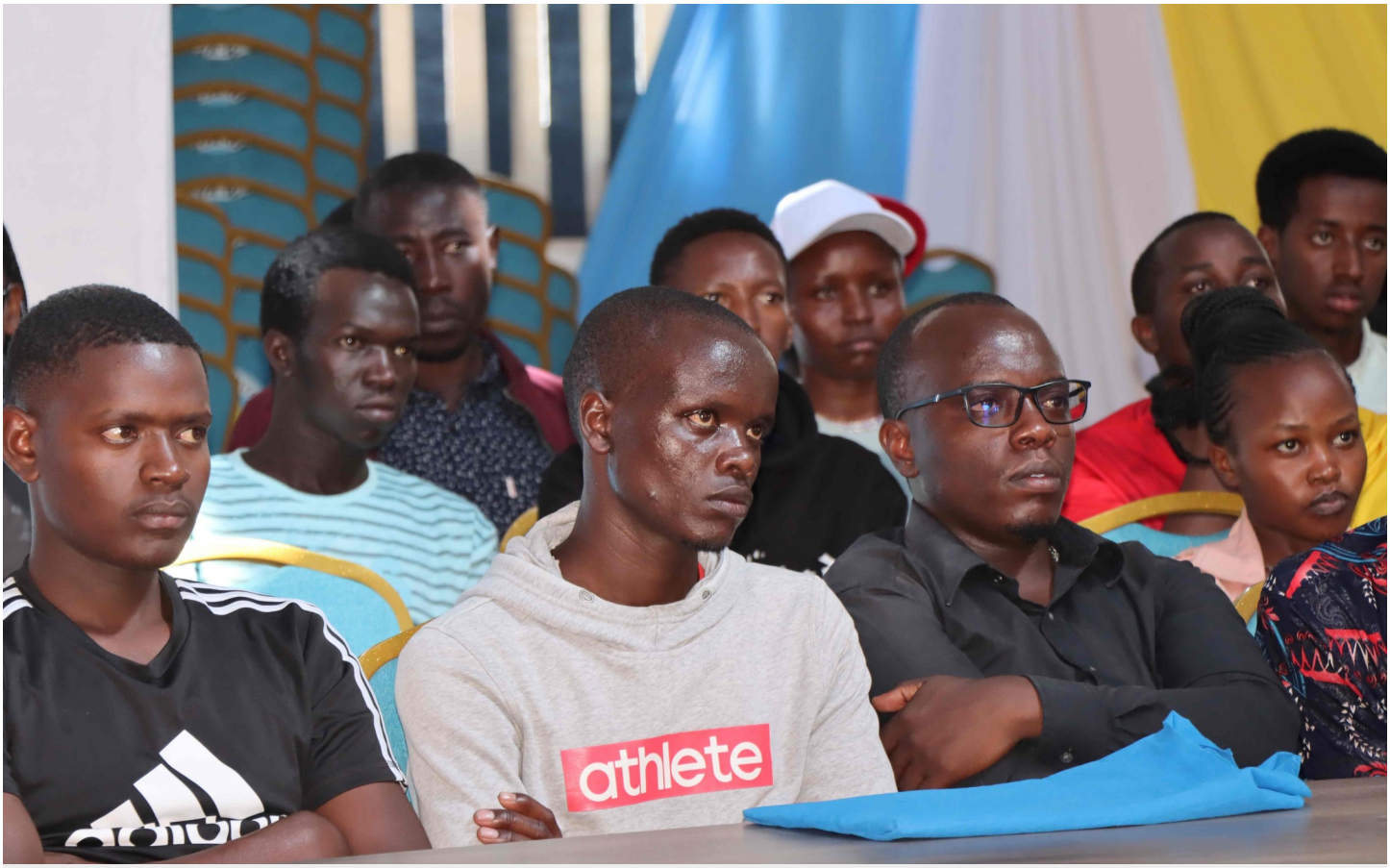
Mr. Feisal, who coordinated the meeting, emphasized the importance of time management and maintaining a professional image while on attachment.

He urged students to work hard, set an example, and take their roles seriously, noting that how they carry themselves could open doors for future employment. He also shared inspiring stories of former students who excelled during their attachment, encouraging the current cohort to emulate them. Additionally, he reminded students to ensure they pay for the required insurance cover, which protects them in case of any accidents or damages during the attachment period.

Adding to the guidance, alumni shared real-life experiences. Mr. Jeremiah, a former student from Chakariga campus (2018–2023) and now pursuing a career as a Project Manager, advised students to be ethical and proactive at their workplaces. He stressed that employers are often keen to retain interns who go the extra mile and conduct themselves with integrity.

Ms. Dorice Situma, Head of Water Resources and Environmental Management (WREM) Department and who represented Academic Affairs office highlighted the changes in assessment under the Competency-Based Education and Training (CBET) system. She outlined key documents students are expected to fill during their attachment, which include the Collaboration Form, Mentoring Tool, and Feedback Form. These tools will help standardize

Diploma Students Guided on Professionalism and Best Practices Ahead of Attachment



Students preparing to leave for their attachments listen keenly during the attachments sensitization meeting at KEWI Nairobi.

assessment and ensure students meet the required competency levels.

Ms. Veronica Muhia lecturer at KEWI took students through each document, explaining how and when to fill them. She pointed out that the Collaboration Form is to be filled by the CEO or supervisor at the attachment institution and should be submitted by the end of the second week. She clarified that the duration of the industrial attachment would range from a minimum of 8 weeks to a maximum of 12 weeks. The Industrial Attachment Feedback Form, on the other hand, is to be completed by the student's immediate industrial supervisor.

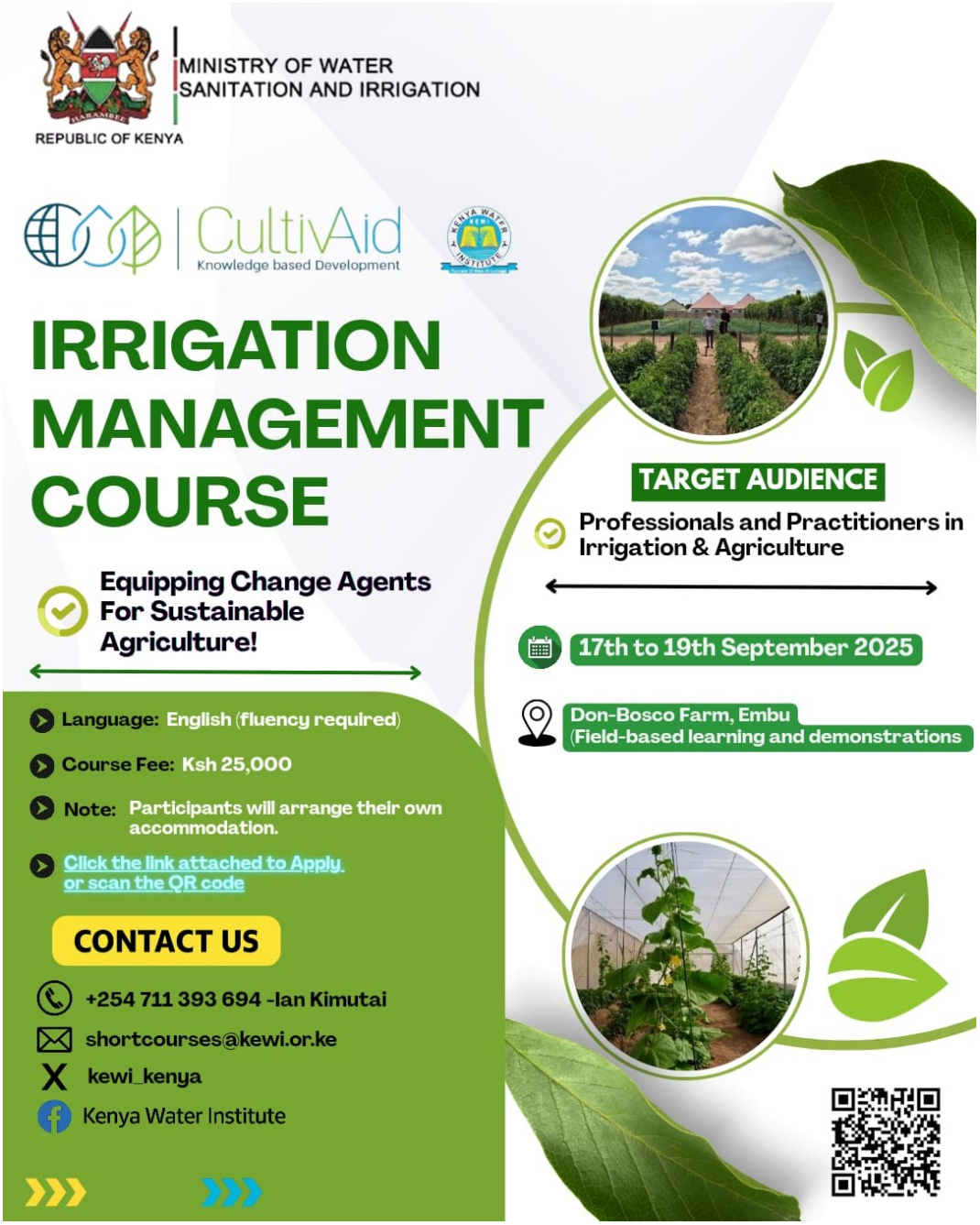
Ms. Lilian Mutangili, lecturer in KEWI, introduced the online student mapping tool, a GPS-based tool is meant to help the institution trace student locations for easier planning and assessment. Students were urged to ensure they access and submit their details through the platform as soon as they begin their attachment.

In line with the Presidential Directive on the National Tree Growing and Land Restoration Campaign, students were also sensitized on their role in helping Kenya achieve 30% tree cover by 2030. Through the Jaza Miti App, students will be able to log each tree they plant, including its species and location. Mr. Pius Kimani, an officer in the Corporate Communications Department, demonstrated how the app works, noting that every entry helps track progress toward KEWI's institutional target of planting two million trees.

The session served as a critical stepping stone for students, giving them both the technical and ethical grounding needed as they transition from classroom learning to real-world work environments

KEWI and CultivAid Partner to Advance Field-Based Training on Irrigation Management for Agricultural Practitioners

BY: PIUS KIMANI



The Kenya Water Institute (KEWI), in partnership with CultivAid, is set to roll out a specialized three-day training course in Irrigation Management, aimed at equipping professionals and practitioners in the agriculture and irrigation sectors with cutting-edge skills for sustainable agricultural practices.

The training will take place at Don Bosco Farm in Embu, a location well-suited for field-based demonstrations and hands-on learning.

Targeting extension officers, farm managers, irrigation technicians, and agribusiness practitioners, the course will focus on modern irrigation techniques, efficient water use, irrigation scheduling, and system maintenance. Through real-life field demonstrations and expert-led modules, participants will be empowered to become change agents in promoting sustainable food production and water conservation.

The training, scheduled over three intensive days, will cost KSh. 25,000, inclusive of materials, meals, and certification.

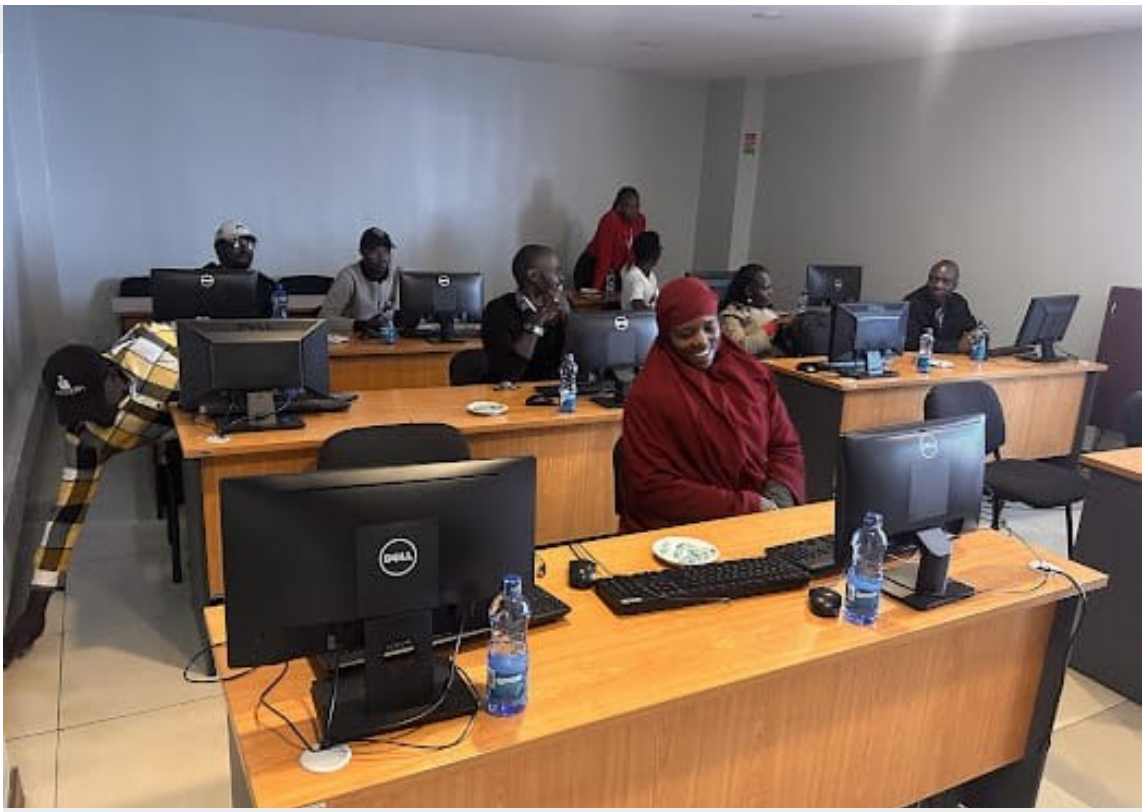
This initiative stems from the recent collaboration between KEWI and CultivAid, an Israeli-based agricultural capacity-building organization.

The partnership is designed to bridge gaps in agricultural water management through knowledge transfer, technology demonstrations, and field-level capacity development.

By merging KEWI's mandate in water-sector training and CultivAid's expertise in smart agriculture, the course is expected to support national efforts toward climate-resilient and productive agriculture.

Empowering Water Sector Experts with Advanced GIS and Remote Sensing Tools

BY: C. KIPTOO



Participants of the "Advanced GIS and Remote Sensing in Water Management" short course during their visit to ESRI Eastern Africa GIS Laboratory.

The Kenya Water Institute (KEWI)-Nairobi Campus, successfully conducted a five-day short course on Advanced GIS and Remote Sensing in Water Management, attracting 10 professionals drawn from various Water Utilities, the Water Resources Authority, and the Export Processing Zone Africa. The course was designed for GIS officers, ICT specialists, and mapping professionals aiming to deepen their expertise in the application of geospatial technologies within the water sector.

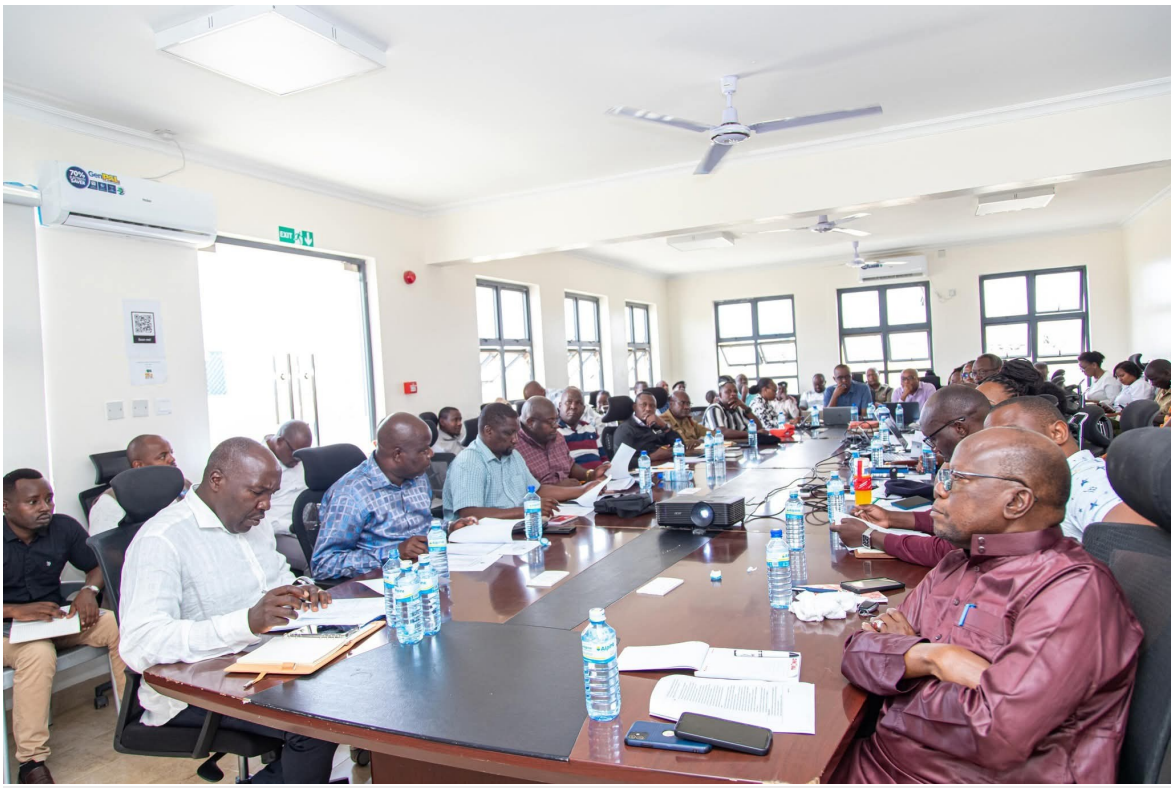
Participants were taken through a well-structured program that blended intensive theoretical instruction with practical sessions, facilitated by KEWI's experienced GIS experts. Over the course of the week, they explored topics such as the use of QGIS and Earth observation tools, field data collection through ODK and Kobo Toolbox, image downloading and geo-referencing, as well as water quality and land degradation mapping using Copernicus products. The training further delved into digitization and data modeling for water pipelines and water bodies, culminating in map creation and data visualization exercises.

A key highlight of the program was a study tour to ESRI Eastern Africa, where participants were exposed to state-of-the-art GIS technologies including ArcGIS, a globally recognized platform widely used in mapping and spatial data analysis. This visit provided invaluable insights into current industry applications of GIS tools and sparked meaningful discussions on how such technologies can be applied in local water resource management efforts.

Coordinated by Mr. Simon Ndeweni, the training concluded with a course evaluation and closing session. Participants expressed high levels of satisfaction with the relevance and depth of the course, the quality of facilitation, and the opportunity to exchange ideas with peers from across the sector. This training reaffirms KEWI's commitment to enhancing capacity in the water sector by equipping professionals with the knowledge and tools necessary to meet emerging challenges through innovation and technology.

PS Korir Leads Stakeholder Engagement and Site Review for Mwache Dam

BY: PIUS KIMANI



Principal Secretary for Water and Sanitation, Mr. Julius Korir, CBS in company of Water Secretary Eng. Sam Alima during a comprehensive stakeholder forum for the Mwache Dam Project in Kwale County. Below. The ongoing construction of Mwache Dam.

The Principal Secretary for Water and Sanitation, Mr. Julius Korir, CBS, this week underscored the Government's continued commitment to strengthening partnerships and accelerating the delivery of critical water and sanitation projects across the country. In two high-level engagements held in Nairobi and Kwale County, the PS led efforts aimed at enhancing access to Water, Sanitation, and Hygiene (WASH) services, as well as fast-tracking progress on the flagship Mwache Dam Project.

In Nairobi, the Principal Secretary, accompanied by Water Secretary Eng. Sam Alima, held a strategic meeting with the Board of the Kenya Water for Health Organization (KWAHO), led by their Chairperson, Ms. Pauline Ikumi. KWAHO, a long-standing partner in the WASH sector, has since its inception transformed the lives of over 3 million Kenyans through focused interventions. These include provision of clean water, improved sanitation infrastructure, hygiene promotion, capacity building, and training in the sustainable management of water systems.

The meeting emphasized the importance of enhancing collaboration between the State Department and KWAHO to scale up WASH interventions, especially for marginalized and vulnerable communities. The organization was also instrumental in the development of the National Sanitation Management Policy, currently awaiting publication. The PS acknowledged KWAHO's impactful work and reiterated the Ministry's support for multi-sectoral partnerships that align with the national goal of universal WASH access.

In Kwale County, the Principal Secretary chaired a comprehensive stakeholder forum for the Mwache Dam Project, bringing together key players including the National Administration, County Government, National Land Commission, local leadership,

PS Korir Leads Stakeholder Engagement and Site Review for Mwache Dam

Principal Secretary for Water and Sanitation, Mr. Julius Korir, CBS, holding a strategic meeting with the Board of the Kenya Water for Health Organization (KWAHO), at Maji House, Nairobi.

and Community Liaison Committees. The forum provided an opportunity for direct engagement with communities and addressed emerging concerns, especially around land compensation and livelihood restoration.

The PS gave a detailed briefing on the project's progress, outlining achievements in dam construction, resettlement processes, and support programs for affected households. He reassured stakeholders of the Ministry's commitment to transparent and inclusive implementation, emphasizing that "Mwache Dam is more than an infrastructure project—it is a catalyst for regional transformation through improved water access, agriculture, and climate resilience."

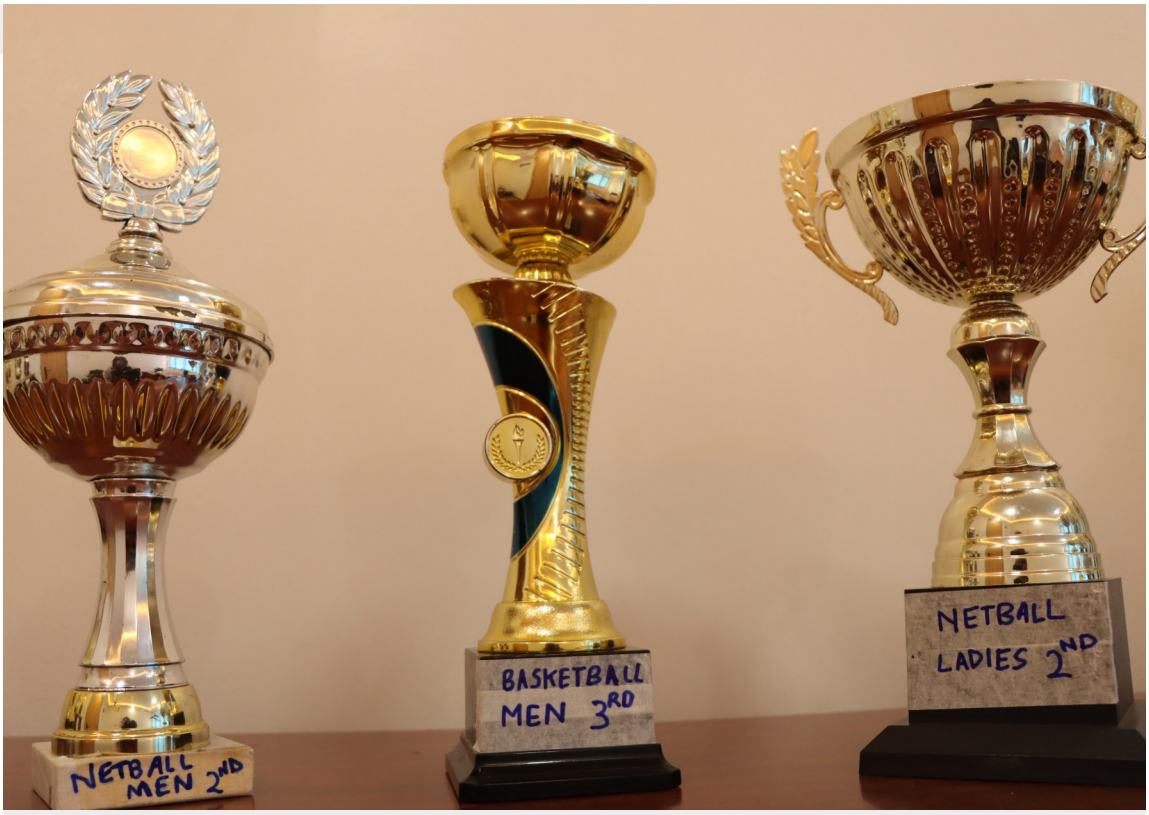
Elected leaders present—Hon. Gonzi Rai (MP, Kinango), Hon. Victor Nyanje (MCA, Kasemeni), and Hon. Hamisi Kombo (MCA, Mwavumbo)—voiced strong support for the project and called for timely resolution of compensation matters to maintain community goodwill.

Later, Mr. Korir and Eng. Alima conducted a detailed inspection tour of the construction site, ahead of the monthly review meeting. The Mwache Dam, now at 46% completion, is being built using Roller Compacted Concrete (RCC) technology and is critical to securing long-term water supply for Kwale and Mombasa counties.

The Ministry reaffirmed its commitment to delivering the project within timelines, upholding environmental safeguards, and ensuring affected communities continue to benefit from social support and development programs. With construction teams working round-the-clock, the project represents a cornerstone in Kenya's water security and climate resilience strategy.

KEWI Lives to its Billing, Excels in Netball and Basketball

BY: FAITH TAUNET



A display of some of the trophies that KEWI teams won during the concluded KETISA Sports meet.

*It is not the will to win that matters – everyone has that. It's the will to prepare to win that matters," **Steve Prefontaine***

The Kenya Water Institute (KEWI) made a powerful mark at the recent Kenya Technical Institutions Sports Association (KETISA) Sports Competition, held at the Kenya Institute of Highways and Building Technology (KIHBT), Kisii Campus by emerging as one of the top-performing institutions with a sterling performance in netball, basketball, football, and volleyball.

With a blend of skill, strategy, and spirit, KEWI secured podium finishes and earned praise for its outstanding sportsmanship. This is after showcasing remarkable sporting prowess and clinching three trophies in Men's Netball, Ladies' Netball, and Men's Basketball.

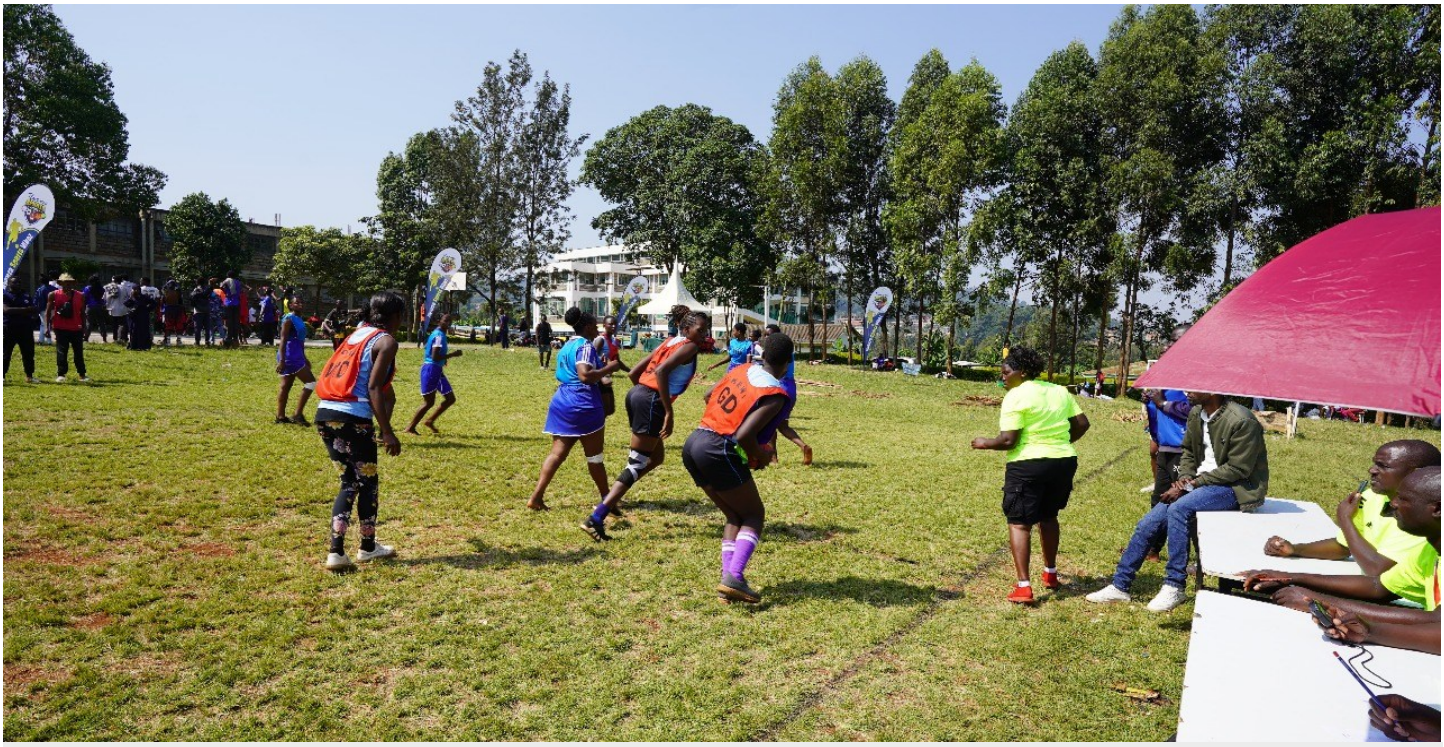
This haul marks a significant improvement from the previous competition, where KEWI secured two trophies in Men's Volleyball and Men's Football. A total of 72 students represented KEWI at the event, 49 from the Nairobi Campus, 9 from Kitui, 7 from Chiakariga, and 7 from Kisumu.

At the heart of KEWI's triumphs was the Ladies' Netball Team, which delivered a near-flawless campaign. They breezed through the group stages, defeating their opponents, Kenya Institute of Supplies Management-KISM (28–1), and East African School of Aviation-EASA (42–0). Their momentum continued into the knockouts, where they triumphed over Railway Training Institute-RTI (19–12) in the quarterfinals and outclassed Kenya Industrial Training Institute-KITI (19–10) in the semifinals. Despite a valiant effort in the finals, the team settled for silver after a closely fought 16–22 defeat against National Industrial Training Authority-NITA Athi River.

The Men's Netball Team equally made headlines with victories over Kenya Forestry College-KFC (18–7), RTI (17–6), and EASA (13–5). They clinched a nail-biting semifinal win over KITI (12–11), earning a place in the finals against NITA Kisumu where they defeated NITA and earned KEWI a trophy.

KEWI's Men's Basketball Team impressed with tactical dominance and athletic flair. They narrowly edged NITA Athi River (17–15) before handing NITA Mombasa a resounding 46–16 defeat, one of the highest-margin wins in the

KEWI Lives to its Billing, Excels in Netball and Basketball



KEWI Ladies Netball team in action at the KETISA where it emerged second.

tournament — establishing KEWI as a basketball powerhouse.

In Football, the KEWI team bounced back from an opening 0–1 loss to NITA Mombasa to defeat EASA 1–0 in a spirited encounter, showcasing their mental resilience and ability to regroup under pressure.

The Ladies' Volleyball Team delivered mixed results, recording a decisive 2–0 victory over KITI, only to fall to NITA Nairobi in straight sets (0–2). Despite the setback, their performance was noted for skilful play and tenacity.

The institution's strong performance was attributed to active participation in semester -friendly matches, effective coordination of activities, and solid facilitation by KEWI's management. The Student Welfare Department and participating athletes expressed gratitude to the administration, led by Director/CEO Dr. Leiro Letangule EBS for providing new jerseys for football, netball, volleyball, and basketball, as well as game kits — including balls and nets for Kitui and volleyball equipment for other campuses.

Across all disciplines, KEWI athletes demonstrated exceptional determination, teamwork, and discipline, traits that underscored the institution's holistic approach to student development.

The success at KETISA not only highlights KEWI's growing sports program but also cements its place as a formidable contender in inter-institutional competitions.

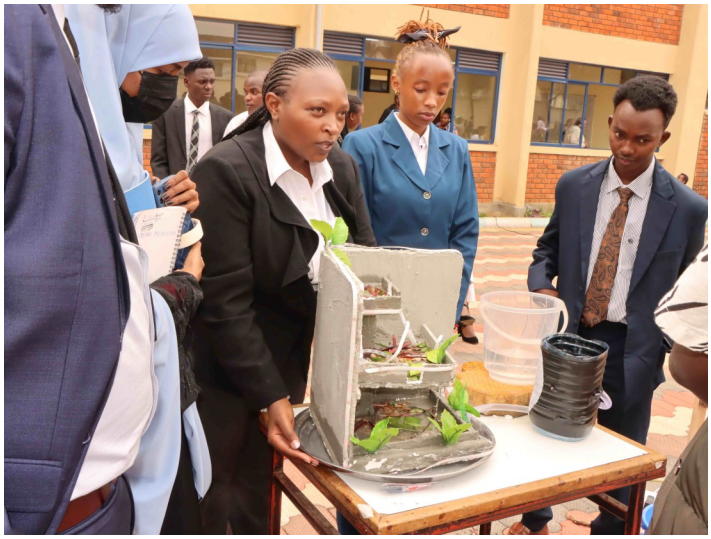
Organized to foster unity, sportsmanship, and physical excellence among technical and vocational training institutions, the KETISA Sports Competition brought together teams from across the country. KEWI's performance earned admiration from peers and spectators alike, shining a light on the synergy between academic excellence and co-curricular engagement.

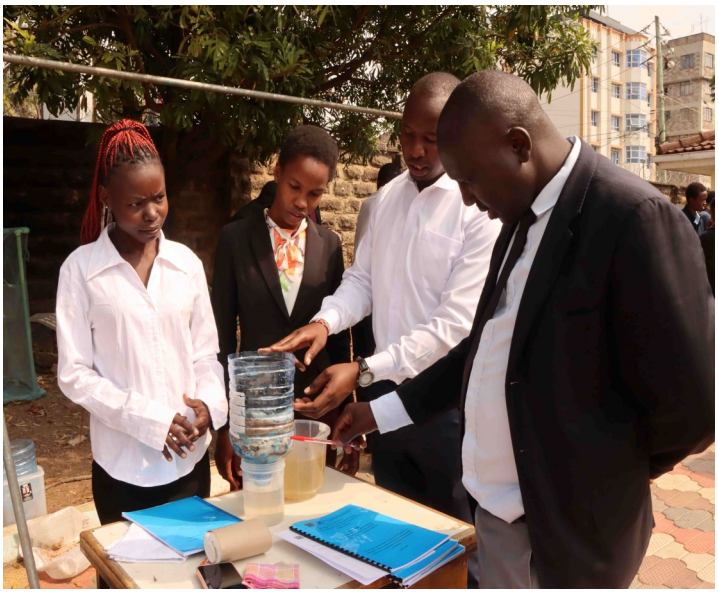
As KEWI looks ahead, the achievements at KETISA serve as motivation for continued investment in student talent, and a clear reminder that the institute is not only about building water professionals but also well-rounded leaders.

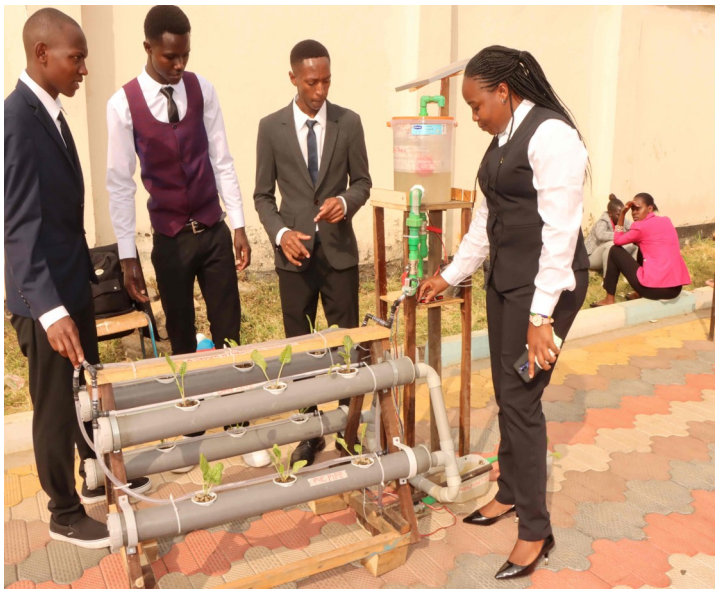
The next semester's KETISA competition is scheduled to be held at NITA Athi River, where KEWI will look to build on its recent success.

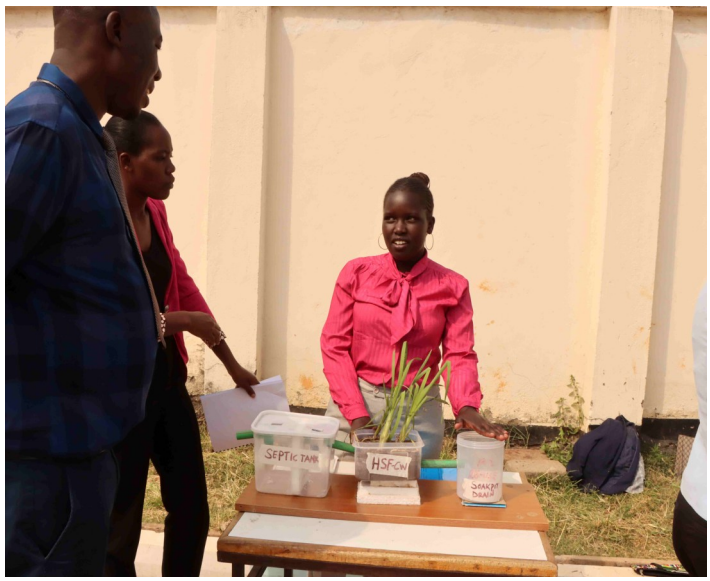
Round up of The Week's Events

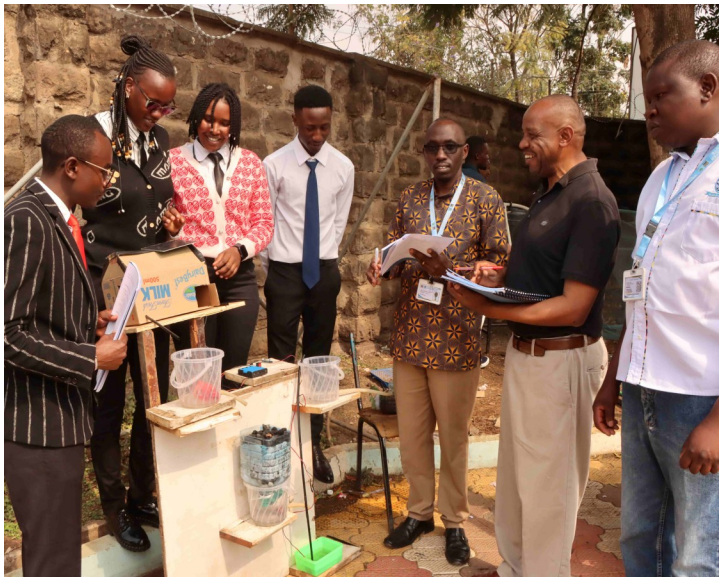
PICTORIAL











Captured moments during the assessment of projects executed by final year students at KEWI, Nairobi Campus.

CALL FOR SEPTEMBER 2025 INTAKE

KENYA WATER INSTITUTE INVITES APPLICATIONS FOR ADMISSION

Kenya Water Institute invites applications for September 2025 intake for the programs offered in Nairobi campus and satellite campuses of Chiakariga, Kitui and Kisumu. The programs will be offered through a Blended Learning Model (online and in person learning for practical based courses). Applicants MUST indicate the campus of choice in the application form.

Program Title	Minimum Requirements	Duration	Campus	Tuition Per Semester
1. **Diploma in Water Engineering Technology (DWET)**	a) KCSE Mean Grade C- (minus) or a division (II) in KCE with at least D (plain) in any of the sciences (Mathematics, Physics, Chemistry or Physical Science and Biology) or Geography OR b) KCSE Mean Grade C- and Artisan Course Certificate from KEWI or any equivalent National Qualification c) As determined by the Academic Board.	Three years	Nairobi Chiakariga Kitui Kisumu	Kshs. 31,300
2. **Diploma in Water Resources Management Technology (DWRMT)**	a) KCSE Mean Grade C- (minus) or a division (II) in KCE with at least D (plain) in any of the sciences (Mathematics, Physics, Chemistry or Physical Science and Biology) or Geography OR b) KCSE Mean Grade C- and Artisan Course Certificate from KEWI or any equivalent National Qualification c) As determined by the Academic Board.	Three years	Nairobi Kitui Kisumu	Kshs. 31,300
3. **Diploma in Irrigation and Drainage Engineering Technology (DIDET)**	a) KCSE Mean Grade C- (minus) or a division (II) in KCE with at least D (plain) in any of the sciences (Mathematics, Physics, Chemistry or Physical Science and Biology) or Geography OR b) KCSE Mean Grade C- and Artisan Course Certificate from KEWI or any equivalent National Qualification c) As determined by the Academic Board.	Three years	Chiakariga Kisumu	Kshs. 31,300
4. **Diploma in Wastewater and Sanitation Engineering Technology (DWSET)** 5. **Diploma in Water Laboratory Technology (DWLT)**	a) KCSE Mean Grade C- (minus) or a division (II) in KCE with at least D (plain) in any of the sciences (Mathematics, Physics, Chemistry or Physical Science and Biology) or Geography OR b) KCSE Mean Grade C- and Artisan Course Certificate from KEWI or any equivalent National Qualification c) As determined by the Academic Board.	Three years	Nairobi	Kshs. 31,300
6. **Diploma in Information Communication Technology (DICT)-KNEC**	a) KCSE Mean Grade of C- and above or its equivalent as acceptable Qualification by KNQA OR b) KNEC Certificate for CICT	Three years	Nairobi	Kshs. 31,300
7. **Certificate in Water Engineering Technology (CWET)**	a) KCSE Mean Grade D (plain) OR b) Artisan Course qualification from KEWI or any equivalent National Qualification OR c) As determined by the Academic Board	Two years	Nairobi Chiakariga Kitui Kisumu	Kshs. 30,000
8. **Certificate in Water Resources Management Technology (CWRMT)**	a) KCSE Mean Grade D (plain) OR b) Artisan Course qualification from KEWI or any equivalent National Qualification OR c) As determined by the Academic Board	Two years	Nairobi Kitui Kisumu	Kshs. 30,000
9. **Certificate in Irrigation and Drainage Engineering Technology (CIDET)**	a) KCSE Mean Grade D (plain) OR b) Artisan Course qualification from KEWI or any equivalent National Qualification OR c) As determined by the Academic Board	Two years	Chiakariga Kisumu	Kshs. 30,000
10. **Certificate in Wastewater andSanitation Engineering Technology (CWSET)** 11. **Certificate in Water Laboratory Technology (CWLT)**	a) KCSE Mean Grade D (plain) OR b) Artisan Course qualification from KEWI or any equivalent National Qualification OR c) As determined by the Academic Board	Two years	Nairobi	Kshs.30,000
12. **Certificate in Information Communication Technology (CICT)-KNEC**	a) KCSE Mean Grade D (plain) and above OR b) Its equivalent as an acceptable Qualification by KNQA	Two years	Nairobi	Kshs. 30,000
13. **Plumbing and Pipe Fitting (PPF)** 14. **Water Operators Course (WOC) in:** • **Water Supply** • **Meter Reading** • **Wastewater Mgt. Tech.**	a) KCSE Certificate OR b) Basic Operator Course qualification OR c) Any other qualification approved by the Academic Board	Two semesters	Nairobi Chiakariga Kitui Kisumu	Kshs.30,000
15. **Irrigation and Drainage systems**	a) KCSE Certificate OR b) Basic Operator Course qualification OR c) Any other qualification approved by the Academic Board	Two semesters	Chiakariga Kitui	Kshs.30,000
16. **Drilling Operations and Management (DOM)**	a) KCSE Mean Grade D (plain) OR b) Certificate in Water Related course WaterTechnician, Water Resource Management,Water Engineering, Mechanical Engineering) OR c) Industry Practice as a Drilling Technicianof at least 2 years	8 weeks	Nairobi	Kshs 40,800

MODE OF APPLICATION

Application forms can be obtained from Kenya Water Institute, Nairobi South 'C', Chiakariga, Kitui and Kisumu campuses; or downloaded from KEWI website. A non – refundable application fee of Kshs 1,000.00 should be paid using this link. https://www.kewi.go.ke/application-payment-process

Applications should be addressed to the **DIRECTOR, KENYA WATER INSTITUTE, P. O. BOX 60013 -00200 NAIROBI. Applications** to reach us not later than **29th August 2025.** Attach photocopies of Academic Certificates, National ID card and original application fee receipt.

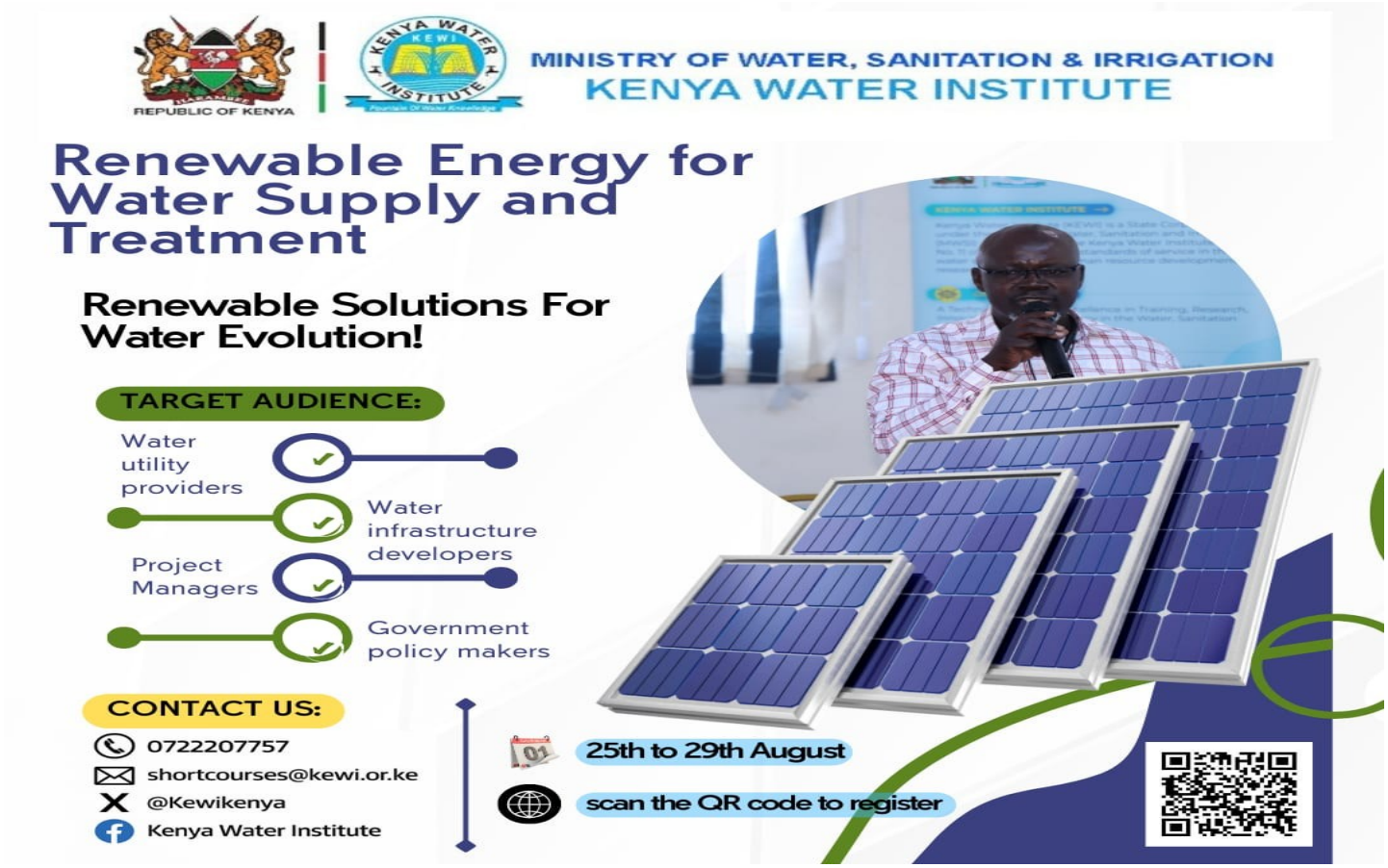
Foreign students to add 20% on all charges. For enquiries: Nairobi - 0722 207 757, 0735339206, Chiakariga – 0729009104, Kitui 0707 566 395

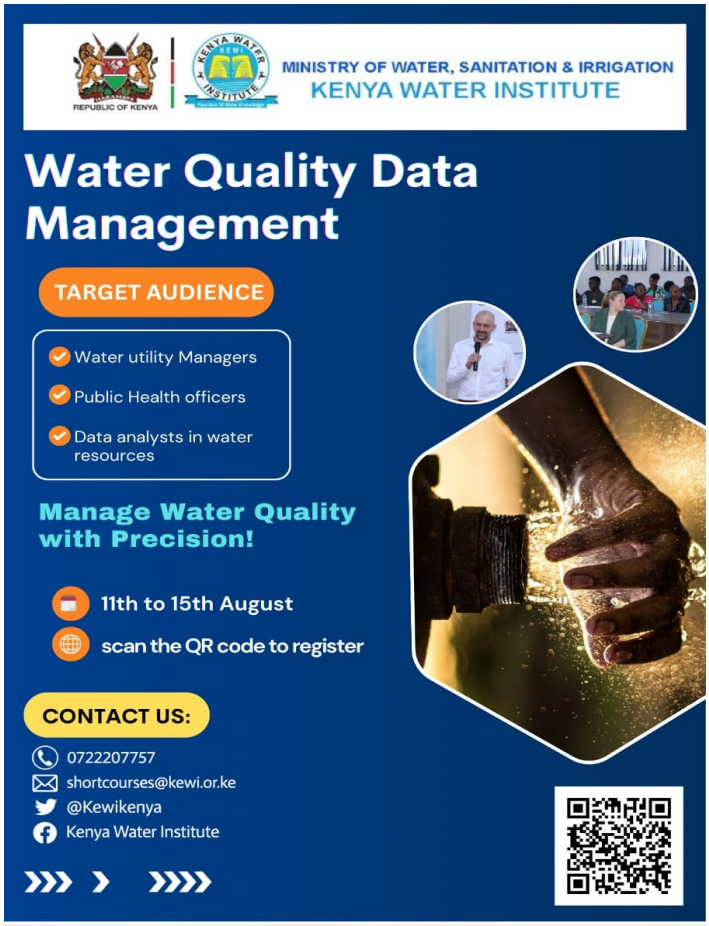
Persons with disability and female students are encouraged to apply.

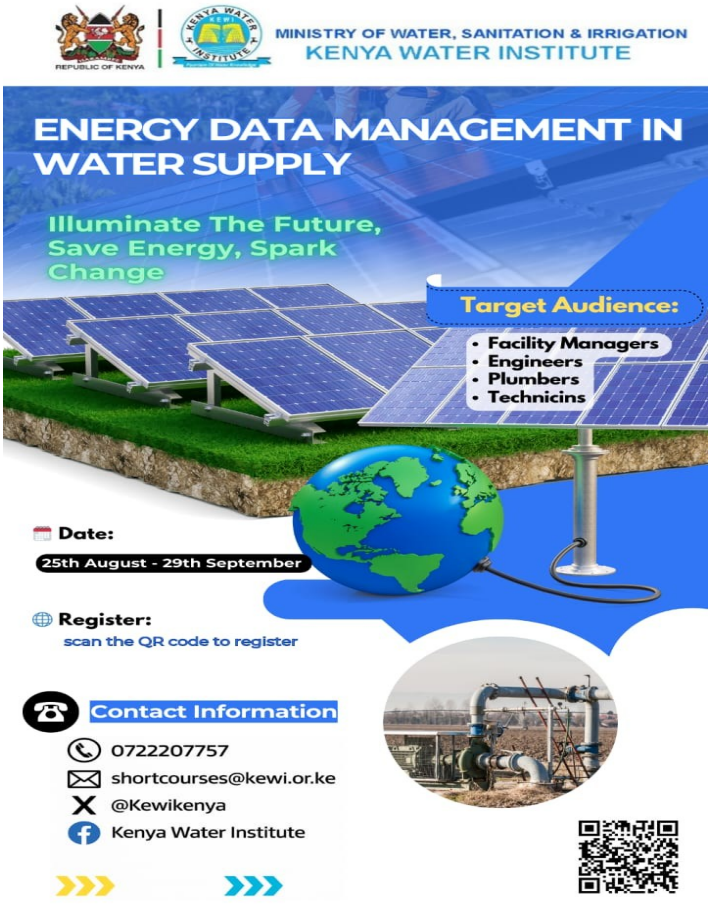
CALL FOR TRAINING

For more information and how to apply, scan the QR Code on the poster.

CALL FOR TRAINING







For more information and how to apply, scan the QR Codes on the posters.

CALL FOR TRAINING

REPUBLIC OF KENYA

MINISTRY OF WATER SANITATION AND IRRIGATION
KENYA WATER INSTITUTE

Water Quality Sampling and Testing Course

Venue: Kenya Water Institute
Date: From 28th July to 1st August 2025
Cost: KES. 30,000

REGISTER NOW

For more information
call 0722 207 757

shortcourses@kewi.or.ke

www.kewi.go.ke

REPUBLIC OF KENYA

Advanced GIS and Remote Sensing in Water Management Course

Venue: Kenya Water Institute, Nairobi Campus
Date: 4th - 8th August 2025
Cost: Kshs 45,000/=

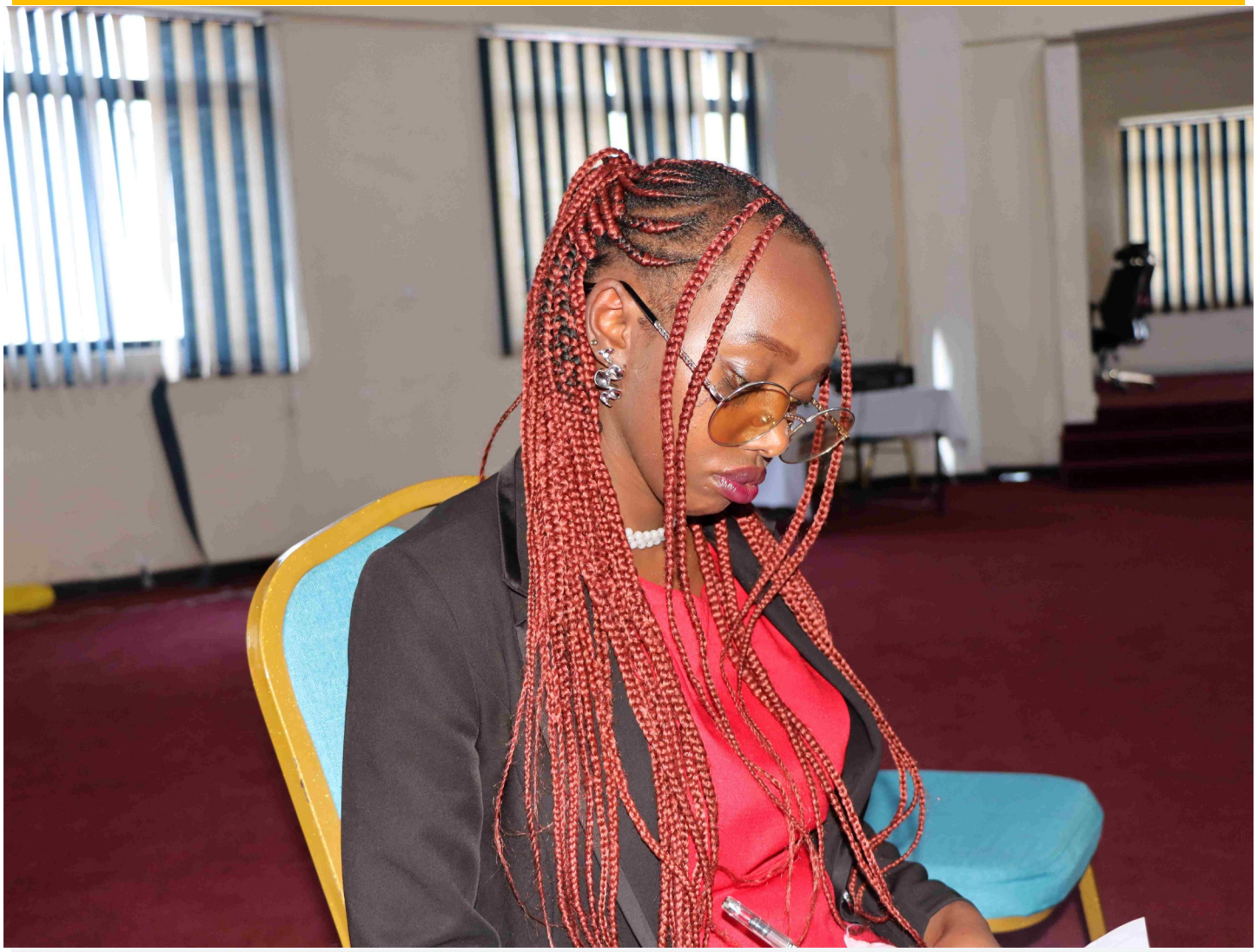
JOIN NOW

for more info
0722-207-757

shortcourses@kewi.or.ke
www.kewi.go.ke

For more information and how to apply, visit www.kewi.go.ke

Picture of The Week



Caught in the act

Miss Faith Taunet, the ever-radiant ray of sunshine, momentarily traded her contagious laughter for the solemn gaze of a philosopher mid-epiphany.

Known for turning even the dullest sports stats into sizzling headline gold, here she appears to be summoning her creative spirits - with wit sharper than a javelin throw and energy brighter than a stadium floodlight, Faith never misses the point (or the punchline).

This dazzling darling of our weekly newsletter was likely penning a spicy twist to her segment before the thought sprinted off like Kipchoge. A thinker, a creator, and undoubtedly our unofficial Minister of Laughter — Faith, keep that pen hot and the ideas hilarious!

Quote of the Week

"Progress begins where performance is measured and feedback is given." – Howard Schultz

EDITORIAL TEAM

Editor

Dorine Eva Irungu

Writers:

Pius Kimani
Britney Mokeira
Judy Kariuki
Faith Taunet
Eng. Erastus Maitai
C. Kiptoo

Photographer/Designer

Pius Kimani

Long - Term Programmes

Diploma in Water Engineering Technology (DWET) Diploma in Wastewater
Diploma in Water, Sanitation Engineering Technology (DWSET)
Diploma in Water Resources Management Technology (DWRTM)
Diploma in Irrigation and Drainage Engineering Technology (DIDET)
Diploma in Information Communication Technology (DICT)-KNEC
Diploma in Water Laboratory Technology (DWLT)
Certificate in Wastewater and Sanitation Engineering Technology (CWSET)
Certificate in Water Resources Management Technology (CWRMT)
Certificate in Information Communication Technology (CICT)- KNEC
Certificate in Water Laboratory Technology (CWLT)
Certificate in Water Engineering Technology (CWET)
Drilling Operations and Management (DOM)
Plumbing and Pipe Fitting (PPF)
Water Operators Course (WOC) in:

- Water Supply
- Meter Reading
- Sewerage Operations

Short - Term Programmes

Use of Earth Observation Tools and GIS for Water Resources Management
Entrepreneurship and Financial Management for Water Managers
Operation and Maintenance of Water Supply Networks
Metering and Installation of Water Supply Networks
Leak Detection & Repair techniques
Drilling Operations and Management (DOM)
Operation & Maintenance of Pumping Stations
Pump Selection, Installation and Maintenance
Plumbing, Pipe Fitting and Solar Water Heating
Instrumentation for Water and Wastewater Systems
Water Governance, Management and Technology
Application of GIS for Water Utilities Mapping
Drilling Operations and Management
Water Quality Sampling and Testing
Microbiological Water Quality Assessment
Integrated Water Resources Management
Non-Revenue water
Water Management
Customer Care

Vision

A Technical Centre of Excellence in Training, Research, Innovation and Consultancy in the water, Sanitation and Irrigation Sector.

Mission

T o offer Competency-Based Training, Research, Innovation, Consultancy and Outreach Services in the Water, Sanitation and Irrigation Sector for sustainable development.

Core Values

Good Corporate Governance
Professionalism
Customer Focus
Innovativeness
Inclusivity
Patriotism
Integrity

GET IN TOUCH WITH US

The Director,
Kenya Water Institute,
P.O. Box 60013-00200 Nairobi
TEL: +254 722-207757
Email: info@kewi.or.ke
Website: www.kewi.go.ke

For enquiries about our TVET programs
Contact the Registrar, Admissions Office.
Phone: 0735339206
Email: admissions@kewi.or.ke

KEWI Nairobi Campus
P.O. BOX 60013—00200
Tel: 0722207757
Email: info@kewi.or.ke

KEWI Chiakariga Campus
P.O. BOX 12—60215
Tel: 0729009104
Email: chiakariga@kewi.or.ke

KEWI Kitui Campus
P.O. BOX 1514—90200
Tel: 0707566395
Email: kitui@kewi.or.ke

KEWI Kisumu Campus
P.O. BOX 7825—40100
Tel: 0746212708
Email: kisumu@kewi.or.ke

OTHER SERVICES OFFERED

Water Quality Laboratory Services
Drilling and Test Pumping Services
Ground water Assessment Services
Conferencing Services
Troubleshooting of pumps boreholes and distribution systems
Repair of pumps boreholes and distribution systems

Your feedback is crucial for our improvement

communications@kewi.or.ke **@kewi_kenya** **Kenya Water Institute** **www.kewi.go.ke**