

September 7-13 2024

## Institute Welcomes New Students for September 2024 Intake



*Mr. Alex Letapi, verifies registration documents of a new student during the admissions exercise at Nairobi Campus. New students get enrolled for the September 2024 intake across all Campuses.*

**BY: JOHN KITONGA**

**A**s September brings in the start of the new academic year, Kenya Water Institute (KEWI) is set to embark on a thrilling new period with the September 2024 intake. This annual event signifies more than just a seasonal change; it represents a time of growth, opportunity, and a renewed devotion to enhancing water and environmental management education in Kenya.

The September 2024 intake at KEWI, ushers in a diverse cohort of students poised to begin their journey of academic and professional growth. Renowned for its commitment to specialized education in water resources and environmental sustainability, KEWI is excited to welcome new individuals ready to address some of the most urgent challenges in the field.

This intake highlights KEWI's ongoing commitment to

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# Institute Welcomes New Students for September 2024 Intake

delivering high-quality education and practical experience to its learners. Offering a variety of courses intended to address the needs of present professionals in water management, the institute is devoted to providing students with the knowledge and skills required to face water challenges both locally and globally.

New students are enthusiastically expecting the hands-on learning experiences that KEWI offers. Several have cited the institute's emphasis on fieldwork and industry partnerships as key reasons for their decision to join. Mbutu Anastashia, a first-year student from Murang'a, conveyed her enthusiasm by explaining that she had chosen KEWI because of its practical approach. She expressed excitement about applying her knowledge in real-world situations and engaging in projects that would have a meaningful impact.

New students are enthusiastic about connecting with the water management community. They are keen to network with industry professionals and participate in collaborative projects with both local and international

organizations. As a new student from Mandera, Hamzakin Gulalae expressed that meeting and learning from experts in the field is highly valuable and mentioned excitement about expanding his network and gaining insights from those who are already making an impact.

As students adjust to their new surroundings, their initial

Institute is well-positioned to uphold its legacy of excellence and innovation. The high enrollment and warm welcome from new students suggest a promising year ahead. Emphasizing hands-on experience, advanced research, and community involvement, The Institute aims to deliver a transformative education that equips students to address key issues in water management and environmental sustainability.

The September 2024 intake at KEWI, marks the commencement of a thrilling academic year full of opportunities for learning and growth. Focusing on innovation guided programs, practical experience, and

impact on the community, KEWI is well-placed to shape the prospect of water management and, stewardship on the environment. As fresh students stage into this effervescent academic atmosphere, they bring the potential to make significant contributions to the field and the world at large.



*New students get enrolled for the September 2024 Intake.*

responses have been largely positive. The state-of-the-art facilities, encouraging faculty, and friendly campus environment have made a significant impact. Orientation programs are tailored to help students familiarize swiftly and become an integral part of the KEWI community.

As the academic year advances, the Kenya Water

# KEWI Makes Waves at WorldSkills Competition: Showcasing Excellence in Water Technology

BY: ENG. WILLIAM ODUOR

The Kenya Water Institute (KEWI) has made a significant splash on the international stage by participating in the renowned WorldSkills Competition, particularly in the Water Technology category. This global event, celebrated for its high standards and broad participation, provided a unique opportunity for KEWI to showcase its expertise and make a mark on the world stage. Facing off against top international talents and technologies from Japan, China, India, Singapore, Brazil, South Korea and Germany, KEWI not only highlighted their state-of-the-art solutions but also set a new benchmark in water management. Their success at the competition underlined their commitment to excellence and their ability to excel on a world stage, reaffirming their status as a trailblazer in the field.

The WorldSkills Competition, often regarded as the "Olympics of Skills," plays a crucial role in advancing vocational education and

training across various industries. Its significance extends far beyond the competitive aspect, impacting educational institutions, industries, and economies

Our involvement in the Competition is a proud achievement for KEWI. It underscores KEWI's dedication to advancing the field of water technology and demonstrates

the exceptional skills and training provided by our institute. Competing against some of the best in the world, KEWI has shown that Kenya is a formidable player in the global water technology arena.

The WorldSkills

Competition offered KEWI invaluable exposure to international standards and innovations in water technology. This experience has been instrumental in benchmarking our practices and identifying areas for growth. By engaging with global leaders and experts, KEWI has gained insights into cutting-edge technologies and best practices that will be integrated into our programs, ensuring our students are equipped with the latest knowledge and skills.



*Ms. Michelle Nanjala showcases her skills in water treatment process automation at the WorldSkills Competition in Leon, France.*

globally.

The test projects undertaken during the competition demonstrated not only cutting-edge technology but also practical, scalable solutions for real-world water challenges. At the Competition, KEWI showcased their expertise across several critical areas which included water & wastewater network simulation using SIMBA software, automation of water and wastewater treatment process, water quality analysis and pump installation.

# KEWI Makes Waves at WorldSkills Competition: Showcasing Excellence in Water Technology



Our participation has highlighted the remarkable talent of Kenyan professionals and students. The competition served as a platform to showcase their skills and creativity in water technology, enhancing Kenya's reputation as a hub of innovation and expertise. The visibility gained from this event not only celebrates our achievements but also inspires others in the field to aim high and excel.

Engaging with international peers has opened doors for KEWI to explore new ideas and forge valuable connections.

These interactions are expected to lead to collaborative projects and research opportunities, enriching our educational offerings and strengthening our role in the global water technology community. The knowledge and experiences gained will drive further innovation and improvement in our training programs.

The success at the WorldSkills Competition is a powerful motivator for current and prospective students. It highlights the

potential for success in the field of water technology and the impact of pursuing vocational excellence. By demonstrating what can be achieved through dedication and hard work, KEWI aims to inspire the next generation of professionals to join and contribute to the water sector.

KEWI's participation in the WorldSkills Competition marks a significant milestone and a step forward in our journey of excellence. As we build on this experience, we are excited about the future opportunities it brings for enhancing our programs and continuing to make a global impact in water technology.



*Installation and Automation of pumping system.*

# Institute Trains Water Utility Technicians on Best Practices and Techniques in Water Billing



BY: ENG. SAMUEL NYONJE

As a mean to improve service delivery, ensure accurate billing, and reduce revenue loss for utility companies, KEWI held a five-day training program in Kitui Campus for Billing Clerk Technicians from Malindi Water and Sewerage Company (MAWASCO). The Water Billing Efficiency Course was conducted to further enhance the skills of billing clerks responsible for water service management.

Throughout the training, the participants got an opportunity to learn best practices, advanced techniques, and efficient approaches to handling water billing in a professional and effective manner.

The participants, during the Introduction to Water Billing Systems, learnt the importance of such systems in the utility management cycle. They were introduced to the fundamentals

of water consumption metrics, the billing process, and how to interpret water meters accurately. This session also covered various billing software used by water companies and the importance of data accuracy.

The participants were further trained on customer data management, highlighting techniques for updating and maintaining accurate customer records. During this training, proper management of customer information was emphasized as a key factor in ensuring the billing process runs smoothly. The session also covered how to handle discrepancies in data and resolve customer queries.

With most water utilities in the country experiencing poor revenue generation as a result of many inefficiencies such as leakages and illegal connections, the participants delved into billing efficiency

and strategies to optimize revenue collection. Participants were trained on methods to minimize billing errors, ensure timely issuance of bills, and deal with late payments or disputes. Techniques such as automated billing systems and the use of smart meters were discussed to improve overall operational efficiency.

The participants also engaged in hands-on exercises and case study analysis. They worked through real-world scenarios involving billing challenges and disputes. This practical session allowed clerks to apply their newly acquired skills, identify gaps in their processes, and propose solutions to improve efficiency.

The course concluded with a certification ceremony, recognizing the participants' dedication to improving their skills and contributing to a more efficient water billing system. Feedback from attendees was overwhelmingly positive, with many noting the course's practical focus and the valuable insights gained into modern billing practices.

In conclusion, the Water Billing Efficiency Course provided an excellent platform for billing clerks to learn the latest techniques in water billing, helping to enhance both customer satisfaction and organizational revenue management.

# KEWI Makes Waves at the 10th Africa Engineering Week



*Eng. Justus Wersongur (Far right) and Eng. Simon Ndeweni (3rd right) during the 10th Africa Engineering Week held at the University of Nairobi Towers.*

**BY: ENG. JUSTUS WERSONGUR**

**A**t the 10th Africa Engineering Week, a significant event organized by United Nations Educational, Scientific and Cultural Organization (UNESCO), KEWI stood out with its impactful contributions. Held under the theme "Engineering and Sustainable Development in Kenya," this prestigious event showcased innovative engineering solutions and provided a platform for crucial discussions on sustainable development.

One of the highlights of the week was Panel Discussion 3, which zeroed in on

Engineering Solutions for Water Management and Disaster Risk Reduction (DRR). This panel brought together experts from across the continent to explore how engineering can address pressing issues in water management and disaster preparedness. Representing KEWI, Mr. Justus Wersongur, Head of the Department of Water and Wastewater Engineering, led the discussion, sharing insights on how advancements in science, technology, and innovation can transform these critical areas.

When asked about integrating advancements in science, technology, and

innovation into engineering training and practices, Mr. Wersongur emphasized the importance of a multidisciplinary approach. "To improve DRR and water management," he explained, "engineering education and practices must evolve alongside technological advancements. This means incorporating cutting-edge tools like data analytics, remote sensing, and advanced simulation models into the curriculum and practical applications. By doing so, we prepare engineers to tackle complex challenges with innovative solutions."

He also highlighted the need for collaboration between

# KEWI Makes Waves at the 10th Africa Engineering Week

academic institutions, government bodies, and the private sector. "Partnerships with tech companies and research institutions can provide engineers with access to the latest technologies and methodologies.

This collaborative approach not only enhances training but also ensures that our engineering practices remain at the

challenges. This ensures that solutions are not only effective but also embraced by those who will use them."

He also noted the significance of leveraging local resources and knowledge. "Incorporating local materials and traditional practices can enhance the sustainability of engineering solutions. Moreover, developing scalable

Engr. Evelyn Nyakundi from KEWI also participated in the panel, further showcasing the institute's commitment to addressing water management and DRR challenges. Her contributions highlighted KEWI's ongoing efforts to integrate advanced engineering solutions and foster collaboration among stakeholders.



As Africa continues to face the dual challenges of water scarcity and increasing disaster risks, KEWI's active participation in the 10th Africa Engineering Week underscores the importance of innovative engineering solutions. By integrating advancements in technology, ensuring solutions are sustainable and scalable, and fostering collaborative

forefront of innovation."

The discussion then turned to ensuring that engineering solutions for water management and DRR are sustainable and scalable across Kenya. Mr. Wersongur stressed the importance of designing solutions that are adaptable to various local contexts. "Sustainability and scalability are achieved through community involvement and local adaptation. Engineers must work closely with local communities to understand their specific needs and

models that can be adapted to different regions within Kenya allows for broader implementation and impact."

Engr. Simon Ndeweni, who also moderated the panel, praised the engaging and forward-thinking discussions. The session was a testament to the innovative spirit within the engineering community in Kenya and across Africa. The exchange of ideas and experiences underscored the critical role of engineering in advancing sustainable development and disaster resilience.

efforts, KEWI is playing a pivotal role in shaping a resilient and sustainable future for Kenya.

In conclusion, the insights shared by KEWI at the event reflect a forward-looking approach to engineering challenges in water management and disaster risk reduction. As the engineering community continues to address these critical issues, KEWI's contributions will undoubtedly help pave the way for a more sustainable and resilient Africa.

# Key Water Conservation Techniques for Kenya's Arid and Semi-Arid Regions

BY: BRITNEY MOKEIRA

Kenya's Arid and Semi-Arid regions are increasingly vulnerable to water scarcity, with limited and erratic rainfall patterns, coupled with prolonged droughts, severely impacting the livelihoods of communities. These areas often face acute shortages of water for drinking, agriculture, and livestock, making daily life a constant struggle. However, by adopting innovative water conservation strategies, these challenges can be mitigated. Through sustainable solutions such as rainwater harvesting, groundwater management, and efficient irrigation techniques, communities in these regions can significantly improve their water security and resilience to climate variability.

To begin with, rainwater harvesting offers a practical and efficient solution to water scarcity by capturing and storing water during the rainy season for use in drier periods. This method allows

communities to make the most of the available rainfall by installing roof catchment systems that collect rainwater into tanks or cisterns. Additionally, the construction of water pans and small-scale reservoirs provides a reliable

store water within sandy riverbeds. The sand filters and retains the water, which can then be accessed during the dry season when surface water is scarce. In addition to providing a reliable source of water for nearby communities, sand



*Water storage tanks in Chiakariga Campus. The Campus has adopted water harvesting techniques. The Campus is located in one of the Semi Arid areas in Kenya, in Tharaka Nithi County.*

source of water for household needs, agricultural irrigation, and livestock during dry spells. By utilizing these simple yet effective systems, communities can enhance their water security and reduce their dependency on unreliable rainfall.

Building sand dams is a highly effective water conservation strategy, particularly suited to arid and semi-arid regions. These simple structures are constructed across seasonal rivers, where they trap and

dams also contribute to groundwater recharge, helping to restore local aquifers and create a more sustainable, long-term solution to water scarcity.

In agriculture, drip irrigation stands out as a highly efficient water conservation method, particularly in regions where water is scarce. This technique delivers water directly to the plant roots in a controlled manner, significantly reducing wastage from evaporation and runoff. By ensuring that crops receive

# Key Water Conservation Techniques for Kenya's Arid and Semi-Arid Regions

just the right amount of water needed for growth, drip irrigation maximizes water use efficiency, making it an ideal solution for farmers in arid and semi-arid regions. Not only does it conserve water, but it also boosts crop productivity by maintaining consistent moisture levels in the soil.

For regions near coastal areas, solar-powered desalination units offer a renewable and cost-effective solution for converting saline water into freshwater. By harnessing solar energy, these systems use a sustainable power source to remove salt and impurities from seawater, making it safe for drinking, agriculture, and other essential uses. This technology not only provides a reliable alternative to traditional water sources but also reduces the pressure on limited freshwater reserves. Solar-powered desalination is particularly valuable in addressing water scarcity in arid and semi-arid coastal regions, contributing to long-term water security.

Educating local communities about water conservation and the critical role of maintaining water resources is essential for long-term sustainability. When

individuals understand the importance of conserving water and the impact of their actions, they are more likely to adopt water-saving practices.

Kenya's arid and semi-arid regions can effectively tackle water scarcity challenges and build long-term resilience to recurring droughts. Techniques



*Carcass of a dead animal in a drought ravaged region in Kenya. ASALS experience extreme consequences incase of rainfall failure.*

*Photo courtesy.*

Community-driven water management projects, where local residents are actively involved in decision-making and implementation, foster a sense of collective responsibility. This approach not only empowers communities to take charge of their water resources but also ensures that conservation efforts are sustained over time, as local ownership leads to greater commitment and resilience in the face of water scarcity challenges.

By implementing these water conservation strategies,

such as rainwater harvesting, groundwater management, and the use of efficient irrigation systems not only help conserve precious water resources but also enhance the ability of communities to adapt to changing climate conditions. These strategies ensure a more consistent and reliable water supply, supporting both livelihoods and agricultural productivity, while fostering sustainable development in some of Kenya's most water-stressed areas.

# Suicide Awareness Month: A Call to Action for KEWI Community

BY: REBECCA NJERI

As the world observe Suicide Awareness Month this September, KEWI takes head, on the importance that comes with addressing a topic that affects many within our Institute community – students and staff alike; suicide. Suicide is a complex and multifaceted issue, but through awareness, education, and support, we can make a significant impact in preventing it and reduce the stigma surrounding suicide.

With a recent survey conducted by the National Institute of Mental Health (NIMH) revealing alarming statistics which indicate that nearly 20% of college students reported experiencing suicidal thoughts in the past year, KEWI has doubled its effort to address this timebomb by setting up a fully functional Guidance and Counselling office.

To further enhance the discharge of the mandate of this office, KEWI has facilitated training of workplace counsellors who are bound to identify and handle cases that may contribute to suicide within the institute.

The statistics from NIMH thus underscores the urgent need for comprehensive mental health support within our institutions.

## Understanding the cause

Several factors contribute to suicidal ideation. Such include Mental Health Disorders which are conditions such as depression, anxiety, and bipolar disorder are significant risk factors. Substance Abuse which is the misuse of drugs and alcohol can exacerbate feelings of hopelessness and despair.

Life Stressors such as academic pressure, financial difficulties, and relationship problems can overwhelm individuals and compound the suicidal ideation. Isolation i.e. lack of social support and feelings of loneliness has also been observed as another factor that can increase vulnerability.

## Remedies and support system

As a mean to remedy the situation and reduce the vacuum that is fertile for suicidal tendencies, KEWI has employed a multifaceted approach to address the menace that is suicide. Such approaches include offering Mental Health Services. KEWI offers free counselling services for students and staff. Don't hesitate to reach out for support.

The institute has trained workplace counsellors who are available throughout. These counsellors spearhead creation of Peer Support Groups. By encouraging both

staff and student to join the support group, this can and has provided a sense of community and shared understanding. To solidify the resolve to tackle this issue, the institute organizes Workshops and Seminars that address topics on stress management, resilience, and mental health awareness.

## Preventive Measures

As a mean to help prevent suicide, the counsellor's office suggests some proactive steps. Such include recognizing the warning signs. These include drastic changes in behaviour, withdrawal from social activities, and expressions of hopelessness. It further encourages open conversations which create a safe space for discussing mental health without judgment.

Promotion of self-care practices such as regular exercise, healthy eating, and adequate sleep and staying connected through regular check-ins with friends, family, and colleagues can also make a significant difference in tackling the suicide menace

Externally, Crisis Hotlines are available for use when the need to report issues related to suicide or any others of such nature. For confidential 24/7 support in Kenya, one can reach the Befriender's Kenya helpline number +254 722 178 177, Niskize suicide prevention helpline 0900 620 800 or +254

# Suicide Awareness Month: A Call to Action for KEWI Community

718 227 440, Emergency Medicine Kenya Foundation at 0800 723 253, Oasis Africa on 254 725 366 614 and +254 (0) 110 862 23, CBT-Kenya on +254 739 935 333 or +254 756 454 585 among others.

## A Community Effort

Preventing suicide is a collective responsibility. By fostering a supportive and inclusive environment, we can help those in distress feel seen, heard, and valued. Remember, reaching out for help is a sign of strength, not weakness.

## Rallying Call

Throughout this month, we will be sharing personal stories of resilience from volunteers within our KEWI community. These stories, which can remain anonymous if the volunteers wish, aim to inspire and provide hope to those who may be struggling. If you have a personal story of resilience that you would like to share, please contact the Institute counsellor.

Let's use this month to educate ourselves, support

one another, and take meaningful action. Together, we can make a difference. If you or someone you know is struggling, please contact the Guidance and Counselling Unit.

Stay safe and take care of each other.

*The writer is Kenya Water Institute's Counsellor.*

## Quote of the Week

"The task of the leader is to get his people from where they are to where they have not been.

Leadership involves envisioning what's possible and then guiding and supporting people through the necessary changes to reach that vision. It's about moving from a familiar place to an unfamiliar and potentially better one."

**-Henry Kissinger**

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# Call for September 2024 Intake



MINISTRY OF WATER, SANITATION & IRRIGATION  
KENYA WATER INSTITUTE

CALL FOR  
SEPTEMBER 2024  
INTAKE



## DIPLOMA COURSES

- Water Resources Management
- Water Laboratory Technology
- Water Engineering Technology
- Information Communication Technology
- Wastewater and Sanitation Engineering Technology
- Irrigation and Drainage Engineering Technology

## CERTIFICATE COURSES

- Water Resources Management Technology
- Water Laboratory Technology
- Water Engineering Technology
- Information Communication Technology
- Irrigation and Drainage Engineering Technology
- Wastewater and Sanitation Engineering Technology

## ARTISAN COURSES

- Water Operator Course
- Plumbing and Pipefitting Technology
- Water and Wastewater Management Technology

**INTAKES:**  
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SEPTEMBER

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# Round up of The Week's Events



*New students register for the September 2024 Intake. The admission process is ongoing across all Kenya Water Institute Campuses.*

## Round up of The Week's Events



*Participants drawn from Nyeri Water and Sanitation Company during a 5-day Short Course training on Water Quality Sampling and Testing, at KEWI Nairobi Campus.*

### 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 (DWRMT)  
 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 (CWLTL)  
 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

To 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

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## 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



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