THE TICHATECH
JOURNAL

Education Tech Magazine

2nd EDITION
MAY - AUG
2025

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Education Tech Magazine

MESSAGE FROM
THE EDITOR IN CHIEF

Hello Dear Educators, innovators, changemakers, and all readers,

Welcome to our second edition of The TichaTech Journal magazine. The journey from our inaugural issue to this milestone has been nothing but an extraordinary and inspiring feat filled with overwhelmingly positive and thoughtful feedback, enthusiastic responses, and incredible collaborations and ideas that have since followed. As we continue to grow, we remain steadfast and dedicated to our founding vision of creating a publication that informs, educates and resonates with the larger interest of a new education experience by offering seamless and efficient integration of ICT into teaching and learning.

In this edition, we take things a step further. We dive deeper, aim higher, and shine a brighter light on the voices, innovations, and stories shaping the future of education. We provide insights on how we are continuing to influence the education space by promoting tech savviness. We take a glance at what activities learners, educators and other stakeholders shall be engaging in while not exploring the potential of ICT and education in learning. We dive into what digital content is and how it can be created to complement the zealous efforts of the educators. We shall introduce our latest product and explore further on the emerging technologies of Artificial Intelligence and how its impact on the education sectors. The dangers that are associated with tech cannot be

ignored; hence we have gone forth and provided insights on how they can be mitigated and the ICT uptake regulated to ensure the potential is fruitful in the long run. Whether you're an educator, learner, parent, or passionate changemaker, this issue was crafted with you in mind to inform, inspire, and ignite curiosity. Your continued support validates our efforts and inspires us to aim higher. Whether you're a returning reader or joining us for the first time, I invite you to explore, engage, and enjoy the carefully crafted content within these pages. We have always valued your input, therefore feel free to contribute to our future publications and be part of the conversation. Share your experience, stories, insights, feedback or queries through **journal@tichatech**.africa or any other platform you resonate best with among the communication channels we provide.

Our editorial team has worked tirelessly to bring you diverse voices that challenge, inspire, and inform. We appreciate their undeterred efforts and dedication to equipping the education sector and nation with ICT knowledge through meticulously crafted content.

Thank you for being part of our community. Here's to continuing the journey together, each beautifully designed and crafted page at a time.

With gratitude and anticipation,

Anthony Gitau

Editor-in-Chief

THE TICHATECH PROJECT
A new education experience

The TichaTech Project is an educational technology (EdTech) company focused on integrating ICT into the education sector. The mission is to empower teachers, school administrators, and other education stakeholders with the digital skills needed to thrive in a tech-driven world, with a vision to promote a culture of teaching and learning that leverages technology. The TichaTech Project operates on core values including Technology, Innovation, Collaboration, Honor, and Access .

We offer a variety of services such as ICT Training, Content Creation, ICT Consultancy, and Technical Support all aimed at enhancing digital adoption in schools. In addition, we strive to curate and improve our products like the TichaTech publications, Mwalimu Digital stores and the TichaTech Gadgets to support educators in their day-to-day work. These offerings are designed to bridge the digital gap in education and equip institutions with tools and strategies to improve learning outcomes through technology.

We are actively collaborating with primary schools, junior secondary schools, high schools, and tertiary institutions to customize ICT solutions based on their specific needs. The education sector being the core of our society, we are also partnering with organizations beyond the education sector, offering opportunities for corporate social responsibility (CSR) initiatives that support ICT growth in schools. We strive for seamless and efficient adoption of technology into teaching and learning, bringing a new experience to education. Feel free to check out our website for more details: https://tichatech.africa

2ND TERM TECH EVENTS BY
THE TICHATECH PROJECT

1. Mid-Term Teachers Forum
A foundation level capacity enhancement session for teachers, educators and other stakeholders that shall aim at learning ICT foundation level skills.
Venue: TBC
Date: TBC
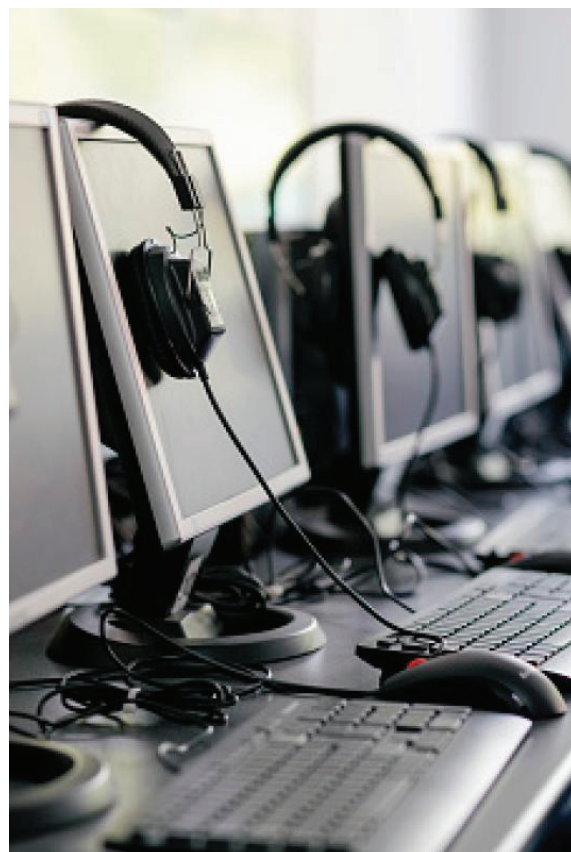All details shall be made available in course of time

2. August Holiday Teachers Forum
A comprehensive capacity enhancement session for teachers, educators and other stakeholders that shall aim at intermediate and advanced level ICT skills
Venue: TBC
Date: TBC
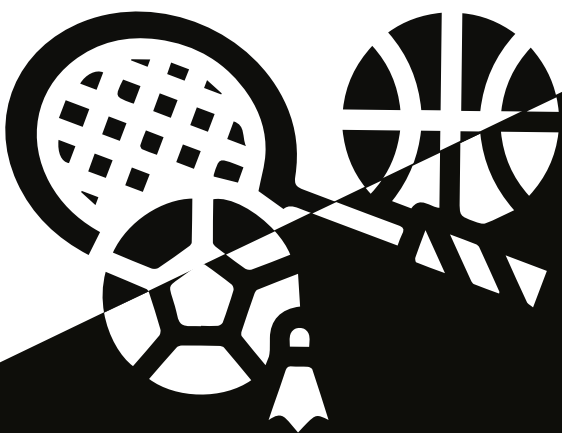All details shall be made available in course of time

ACADEMIC TERM II
2025 AT A GLANCE

The second term of the academic year is slated to commence on week starting on 28th April 2025. The school shall be in session for 14 weeks and shall break for August holiday on the week ending Friday 1st August 2025. The August holiday shall run from August 4th 2025 for three weeks to 22nd August 2025. There school shall enjoy a 5 days half-term break between 25th June 2025 and 29th June 2025. The term shall be the longest in the academic year, the first term had 13 weeks and the third term shall have 9 weeks. Fourteen weeks of curriculum work can be monotonous, and the extra-curricular activities shall complement learning wholesomely.

The co-curricular activities are classified and divided between first term and the second term, there are no activities in the third term of the academic year. In the first term we have Athletics, Drama and Engineering and Science competitions. In the second term we have the ball games and music competitions dominating the co-curricular activities.

The level at which each school participates is determined by, the level of education the school is in, primary school (Under-12), Junior Secondary school(under-15) secondary school (under-18) and the tertiary level, and the locality from where the school hails from, the sub county. All schools are eligible to participate if they are able to field an eligible team under the level they are at the zonal level, which typically includes schools hailing from the same subcounty. Progression from zonal level have teams competing against each other at the county level seeking for a chance to compete at the regional level. Sub-counties present their best schools to compete with other sub-counties in the same county.

The best schools from the counties get to compete with other counties with the same region for a chance to express their prowess at the national level. The best school from each region compete at the national level for supremacy as the best school in the country and a chance to represent the nation at the East Africa level for a chance to be the best school in the domain of participation at that level. The Second term activities shall be music competition and ball games which will include; Soccer/football, volleyball, netball, handball rugby 7s (for both boys and girls in secondary schools), Table tennis, tennis, and basket ball 3*3 (for the u18. Secondary schools and u15, junior schools). The Zonal level shall take place in May 2025 at different sub counties. The county level for progressing school shall be in June and the regionals in July. The competition details, dates and Venues, for different levels shall be communicated by the relevant administrative officers in the jurisdictions. For the schools that emerge the best at the sporting activities at the regional levels shall pack and head for Nakuru City as for all the national action shall be there. The Nationals Sports and ball games competitions shall take place between the 26th of July and 3rd August in Nakuru County of the Rift Valley region.

The Secondary School Sports shall be held at Nakuru High School, the Secondary Special Schools Sports shall be at Kiroben Secondary, Junior Schools Ball Games and Primary School Ball Games shall be at Njoro High School, the Primary Special Schools shall be held at Jomo Kenyatta High School.The schools that emerge champions at the different levels shall represent Kenya at the Federation of East African schools' sports Association championship. For the champions, they shall have a longer stay at the lakeside city as the Federation of East African schools' sports Association championship shall be hosted in Nakuru city between the 14th of August till the 25th of August. The schools that emerge best at the regional level shall head to the mountainside town of Meru where the Kenya National Music Festival shall take place between the 1st and the 14th of August at Meru School and Kaaga girls School.

The Competition dates shall be between 2nd August and 10th August, the Gala shall be held on 11th and 12th August and the State Concert shall close the curtains to the national competition on 14th August. The champions from the festival shall represent Kenya at the East Africa Music Dance and Drama festival in Arusha Tanzania between 15th August and 25th August 2025.

The second term is action packed with different activities scheduled to take place in the course of the academic term alongside the academic curriculum. Which activities are you a fan of and which school will you be rooting for to emerge champions at the different levels? We at The TichaTech Project shall provide the details of the events as they progress on, follow us on our platforms for real-time updates on the progress of the second term activities.

By Anthony

ICT IN EDUCATION

Introduction

The rapid advancement of technology has significantly transformed education, reshaping traditional learning methodologies and making education more interactive, engaging, and accessible. Digital content, which includes instructional materials created, stored, and disseminated electronically, has become a vital tool in modern classrooms. This shift is driven by the need for inclusive education, the increasing demand for remote learning solutions, and new insights from educational psychology that highlight the benefits of multimedia learning. However, despite the progress made, challenges such as inadequate infrastructure, digital literacy gaps, and resistance to change among educators persist. This article explores how digital content enhances interactive learning, the role of multimedia in education, the benefits of personalized learning, gamification strategies, and how educators can leverage tools like PowerPoint to improve content creation and engagement in the classroom.

Digital Content and Interactive Learning

Interactive learning, facilitated by digital content, encourages students to engage actively with course materials rather than passively receive information. Digital tools allow learners to explore concepts through simulations, quizzes, animations, and virtual experiments, fostering deeper understanding and long-term retention.

While many digital learning platforms exist, it is crucial to use up-to-date and curriculum-aligned resources. Some older platforms remain focused on outdated educational systems, limiting their effectiveness in today's learning landscape. Modern platforms provide engaging, culturally relevant learning experiences through storytelling, problem-solving exercises, and multimedia elements. This approach fosters cognitive engagement, improves comprehension, and enhances critical thinking skills.

Hindrances to Access and Use of Digital Content

Despite the advantages of digital learning, access remains a challenge. Key barriers include:

- **Limited Infrastructure:** Many schools, especially in rural areas, lack reliable electricity and internet connectivity.
- **Teacher Training Gaps:** Some educators struggle to integrate digital content effectively due to inadequate training.
- **Cost of Digital Resources:** Many interactive learning platforms require subscriptions or expensive devices, limiting access.
- **Resistance to Change:** Some schools and educators still prefer traditional teaching methods, slowing the adoption of digital tools.

To overcome these challenges, it is essential to provide capacity-building programs for educators and equip schools with the necessary resources to integrate digital learning effectively.

Personalized Learning and Accessibility

Digital content enables personalized learning, allowing students to learn at their own pace, revisit concepts as needed, and progress when ready. Adaptive learning technologies analyze students' learning patterns and adjust content to meet their individual needs, ensuring that no learner is left behind.

In addition, digital content promotes inclusivity by catering to students with disabilities through assistive technologies such as text-to-speech software, captioned videos, and interactive Braille readers. Schools that have adopted these technologies report significant improvements in student engagement and performance.

Gamification and Student Motivation

Gamification incorporates game-like elements into education to enhance student motivation and engagement. Features such as rewards, leaderboards, and challenges make learning more dynamic and enjoyable. Schools using gamified digital content report increased student participation, improved academic performance, and higher retention rates. By integrating competition and rewards, digital tools create an interactive learning environment that fosters a love for education.

Creating Digital Content for Education

Developing engaging digital content requires careful planning to align with learning objectives.

Among the most effective tools for content creation is PowerPoint. It allows educators to integrate multimedia elements, create interactive quizzes, and design visually appealing presentations that enhance classroom engagement. Schools and teachers using PowerPoint as a teaching aid have reported improved student interaction and comprehension.

To maximize PowerPoint's effectiveness in education, educators can:
- Use free templates from platforms like SlideShare and Canva for professional-looking presentations.
- Embed multimedia elements such as videos, images, and animations to capture students' attention.
- Create interactive quizzes and hyperlink slides to simulate an e-learning environment.
- Convert PowerPoint presentations into video formats for easy sharing on

CONCLUSION AND CALL TO ACTION

Digital content is revolutionizing education by making learning more engaging, interactive, and accessible. The integration of multimedia, personalized learning pathways, and gamification has significantly improved how students interact with educational materials. However, to fully leverage these benefits, educators and policymakers must invest in teacher training, improve digital infrastructure, and support content creation initiatives.

If you are an educator or school administrator looking to integrate digital content and interactive learning into your system, we are here to help. The TichaTech Project provides capacity enhancement skills, technical support, and training programs to equip schools and teachers with the tools they need to embrace digital education. Feel free to reach out to us and learn how to make digital learning a core part of your institution's teaching strategy.
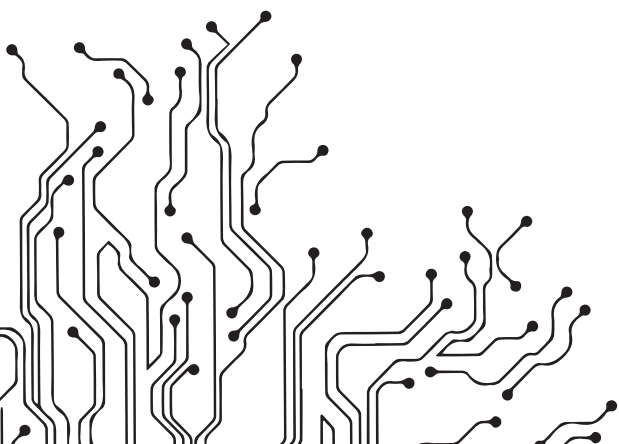
By Millicent

PRODUCTS
AND SERVICES:

As The TichaTech project, we have strived to
enhance ICT adoption and integration through the
following services:

1. CLASS program
2. ICT Training and Capacity Building
3. ICT Technical Support and Computing Devices Maintenance
4. ICT in Education Consultation

To enhance the services and make the access to this ICT seamless, we have the following products for schools

1. The TichaTech Publications– Termly, weekly and periodic publications with different hacks, articles on trends and information on ICT in Education and how to adopt and integrate ICT. The Publications Include; The TichaTech Journal, The TichaTech Blog, The TichaTech Templates, Ticha Assistant, and The TichaTech Project YouTube Channel. More details at: https://tichatech.africa/publications

2. The TichaTech gadgets - A premium termly subscription where educational institutions, parents and other stakeholders can lease, purchase or hire computing devices for teaching and learning as per their educational needs. The Devices available include; Laptops (Windows OS), Tablets (Android OS), Projector and a full Model Computer lab. More details at: https://tichatech.africa/gadgets

3. Mwalimu Digital Stores- At affordable prices, whether in retail or wholesale, feel free to get all school supplies and ICT accessories from us. Thoroughly reviewed to ensure quality, we source nothing but the best products and have them delivered to wherever you are. We offer class-demonstration products and material for ICT that you will only get from us specifically prepared for you. For more details visit: https://mds.tichatech.africa

SCIENCE AND TECHNOLOGY:
ARTIFICIAL INTELLIGENCE AND IMPACTS TO EDUCATION

Artificial Intelligence (AI) is revolutionizing education by simulating human intelligence in machines that think and learn like us. This technology encompasses various areas, including machine learning, natural language processing and robotics. In the educational sector, AI has the potential to significantly enhance teaching and learning experiences, providing personalized learning paths, automating administrative tasks and making information more accessible.

One of the most exciting aspects of AI in education is its ability to create personalized learning experiences. By analyzing individual students' learning patterns, AI can adapt educational content to better suit their needs, helping them identify strengths and weaknesses. This tailored approach can lead to more effective learning outcomes, as students receive support that aligns with their unique styles.

AI also streamlines administrative tasks like grading, scheduling and tracking attendance, allowing educators to focus more on teaching rather than paperwork. With AI powered tools available around the clock, students can access resources and support outside of regular school hours, promoting continuous learning. Engagement is another area where AI shines. Technologies such as virtual reality and gamification create interactive learning experiences that make lessons more captivating. Additionally, AI can analyze large amounts of data to provide insights into student performance, helping educators make informed decisions about their teaching strategies. It also fosters inclusivity by offering support to students with disabilities through tools like speech recognition and text-to-speech.

However, the integration of AI in education has its own challenges. Equity issues can arise, as not all students have equal access to technology, potentially widening the gap between those who can benefit from AI and those who cannot. There are also valid concerns about data privacy; using AI often involves collecting and analyzing personal information, which raises questions about student security.

Moreover, over-reliance on AI tools might lead to decreased critical thinking and problem solving skills among students.

The automation of administrative tasks could result in job losses for support staff, creating economic challenges. Additionally, biases in AI algorithms can lead to unfair treatment of certain student groups, especially if these systems are trained on flawed data. Lastly, integrating AI into existing educational systems requires significant investment in technology and training for educators.

AI integration takes many forms in education. Adaptive learning platforms can tailor content to fit individual learning styles and paces, ensuring personalized experiences for each student. Intelligent tutoring systems provide personalized feedback and support, mimicking one-on-one tutoring. Administrative automation helps streamline processes, allowing educators to spend more time on instruction. Virtual assistants offer students instant answers to questions, while learning analytics can identify trends and predict outcomes, enabling early intervention for those at risk of falling behind.

The impact of AI on education is significant. By delivering personalized learning experiences and immediate feedback, AI has the potential to boost student engagement and academic performance. With AI taking on administrative tasks, educators can devote more time to teaching and interacting with students, creating a more dynamic classroom environment. Furthermore, AI tools facilitate collaboration among students and teachers, breaking down geographical barriers and fostering a more interconnected educational community. Preparing students for a future where technology and AI are central to various sectors equips them with essential skills for success.

In conclusion, while the integration of AI in education brings both opportunities and challenges, its potential to transform learning is undeniable. Embracing AI can lead to more personalized, engaging and efficient educational environments that ultimately benefit students. It's not just about adopting new technologies, it's about reimagining the future of education itself. By leveraging AI thoughtfully, we can create a learning landscape that empowers both educators and students alike.

By Milkah

CLASS
PROGRAMME

PROFESSIONAL SOLUTIONS FOR YOUR SKILLS

Capacity Building
Structured training pathways for teachers, school leaders, students, and parents to build essential digital skills.

Technical Infrastructure
Assessment, planning, and implementation support for sustainable technology

Curriculum Integration
Practical guidance on embedding technology within existing curricula and transforming teaching approaches.

Sustainability & Scaling
Building internal capacity to sustain progress and creating networks for peer learning and support.

FOR MORE INFO

SCAN HERE!

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Blog: https://blog.tichatech.africa

TECHNOLOGY HACK:
HOW TO SET UP A GOOGLE ACCOUNT FOR YOUR CHILD

What is a Google Account?

A Google Account is a personal user account that gives you access to a variety of Google tools, from Gmail for email to YouTube for videos, Google Drive for cloud storage, and Google Classroom for online learning. With just one account, you can sync your data across multiple devices, save preferences, and enjoy a seamless experience across Google's platforms. It not only enhances your productivity but also ensures a safe and secure online environment with strong password protection and two-step verification. Whether you're using Google Search, navigating with Google Maps, uploading photos to Google Photos, or video chatting on Google Meet, a Google Account simplifies your online life. It brings everything you need under one roof, making it easier to stay connected and productive.

Why Should a Child Have a Google Account?

A Google Child Account is a game-changer for both parents and children, especially for children under 13 because it provides a safe space for children to explore the internet while ensuring parental control. Given the vast amount of content online, both helpful and harmful, Google's child account settings are designed to filter age-appropriate content and block inappropriate sites, creating a safe environment for young users.

With a Google Child Account, parents can:

- Filter content to block harmful websites and videos.
- Set screen time limits to help avoid excessive gadget use.
- Monitor activity to keep track of what their child is searching and watching
- Track location if the child's device is connected to the internet the parent/guardian can easily see their location
- Ensure restriction on account changes to deter children from removing parental restrictions
- Manage all features from their own device through the Google Family Link app
- Supports educational growth by granting access to tools like Google Classroom for schoolwork, Google Docs for assignments, and YouTube Kids for educational videos.
- Children can safely store their files, homework, and photos in Google Drive, ensuring that their important data is accessible from any device, any time.

How to Create a Google Child Account in Kenya

Creating a Google Child Account is easy and secure. Here's a step-by-step guide to help you set up a safe and enjoyable online experience for your child:

Step 1: Visit the Google Family Link Page
Start by opening a web browser on your phone or computer and head to the official Google Family Link website: Google Family Link. This site provides all the information you need to create and manage your child's Google Account securely

Step 2: Download the Google Family Link App
To manage your child's account, you need the Google Family Link app on your phone or tablet. Download it for your device:

- Download for Android
- Download for iPhone

Step 3: Open the App and Start Creating the Child Account

Once you've installed the app, open it and tap on "Create Account for Your Child" to begin the account creation process for a child under 13.

Step 4: Enter Your Child's Personal Information

Fill in the details:

- Full Name – Your child's first and last name
- Birthday – The correct birthday ensures age-appropriate settings
- Email Address – Create a unique Gmail address for your child
- Password – Choose a strong password to secure the account

Step 5: Set Up Parental Controls and Safety Settings

Once the account is set up, you'll be prompted to set up parental controls:

- Approve or block apps before your child can download them
- Set screen time limits to control device usage
- Filter content to block harmful videos, websites, and apps
- Manage activity by reviewing your child's searches and online activity

Step 6: Complete the Setup and Manage the Child's Account

After completing the setup, you can manage your child's account at any time using the Google Family Link app. From there, you can:

- Monitor your child's online activities
- Adjust settings and track their location
- Ensure they have a secure, productive online experienceTop of Form

CONCLUSION

Setting up a Google Family or Child Account is a vital step in ensuring a secure and controlled digital environment for your child with the ability to manage screen time, filter content, track location, and monitor online activity, parents can actively safeguard their children while allowing them to explore the internet safely. By leveraging tools like Google Family Link, you create a balance between digital independence and responsible usage. If you need any technical support during this support process or have any questions, feel free to reach out to the TichaTech Project. We're here to help you navigate this journey with ease and confidence.

By Millicent

FUNZONE

1. Tech Jokes

Why was the computer cold?

Why was the robot so bad at soccer?

Answers

It left its Windows open.

It kept kicking up the data.

2. Brain Teasers

Riddle:I can store knowledge, yet I have no mind. I help you find answers, but I'm not hard to find.

What am I?

Answer: A search engine.

3. Fun Facts

Did You Know?

The term "artificial intelligence" was first coined in 1956 at a conference at Dartmouth College, where researchers predicted that machines would one day be able to learn and think like humans. Today, AI is being used in educational technology to provide personalized learning experiences, adaptively responding to individual student needs.

4. Quiz

Computer shortcut keys are quick combinations of keyboard presses used to perform specific tasks or commands, enhancing efficiency and productivity. What are these shortcuts used for?

Ctrl+ C - _____

Ctrl + V - _____

Ctrl + X - _____

Ctrl + Z - _____

Answers

Copy

Paste

Cut

Undo

CLASSIFIEDS

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Motto: Engaging the heart, Educating the mind

Ken Academy

Ken Academy is an education center of excellence that provides the CBC Curriculum. It has the Kindergarten, Primary and Junior School Levels. We Located in Kikuyu Sub-county, Kiambu County.

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Email: admission@kenacademy.ac.ke

Motto: Make That Move

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ACKNOWLEDGEMENT &
APPRECIATION

With sincere gratitude, we honour the exceptional minds behind this publication.

To our editors, for your discerning guidance and editorial excellence; To our contributors, for your compelling voices and insightful thought; To our sponsors, for your unwavering support and belief in our vision; And to our designers, for your artistry that brought each page to life. Your collective brilliance has shaped not just a magazine, but a meaningful experience.

CALL FOR ARTICLES

We're inviting fresh, thought-provoking contributions for our upcoming edition. Share your insights, stories, or ideas and be part of a publication that sparks meaningful dialogue. Submit to journal@tichatech.africa.

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LIMURU TOWN