



MAASAI MARA UNIVERSITY

Issue 1 // December 2019



Magazine *Enchorro Eng'eno*

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MAASAI MARA UNIVERSITY

VISION

To be a world Class University committed to Academic Excellence for Development.

MISSION

To provide quality University education through innovative teaching, research and consultancy services for development

CORE VALUES

1. Teamwork
2. Professionalism
3. Creativity and Innovation
4. Transparency and Accountability
5. Excellence
6. Equality and Social Justice.

Maasai Mara University Logo

Feature Description

Shield- The shield is a symbol of protection and is divided into two compartments separated by a wavy blue line representing the River Mara.

Tree and wildebeest- The character of The University is focused on natural resources management and tourism. This is represented by the acacia tree, the type dominant in the Maasai Mara National Reserve. The wildebeest is world-famous for migration between the Maasai Mara National Reserve and Serengeti National park.

Book- Represents knowledge

Eng'eno e puuan - The Maa language, meaning "Knowledge for prosperity/ Success/ Progress".

Mara River and Green Colour- Signify the University's keen association and participation in environment conservation.

Golden/Beige Color- The University's primary Colour.

Brick Red- The surrounding community preferred Colour, which symbolizes the strong link between the University and the community.

Maasai Mara University- The new name of the institution.

Stars- Aspirations and greatness of Maasai Mara University graduates.



CHAIRMAN COUNCIL

**DR. SAMUEL AGONDA OCHOLA (BA
(TRUMAN STATE UNIVERSITY),
MA(CSU), PH.D. (UON)**

Maasai Mara University, a public University situated 150 km in the South West of Nairobi enroute to the great Maasai Mara Game Reserve. The University is a reservoir of the African culture and indigenous knowledge with the obligation of championing social, political and economic changes in the region. The University focuses on innovative teaching based on research with global collaborations with industries and other institutes. The University has specialized in the following disciplines: Business, computing, Technology, education, psychology, tourism, environmental sciences, and health sciences and research. The University encourages interaction between researchers and the local community . It has already implemented outreach activities which support Sustainable Development. Through research and outreach programmes, the University supports the economic, educational, social and cultural development of the community and the nation at large.

The University has greatly contributed to the conservation of natural resources through collaboration with Narok County Government and other stakeholders in Environmental Conversation.

The university magazine (Enchorro Eng'eno) will reflect our lives in a place filled with the arts, Sciences, food security, strong businesses, innovation, culture, education, recreation, social doings and community spirit, events. It will celebrate all the people, places and things we take pride in.

I congratulate staff/faculty members, students and other contributing writers, graphics designer and editorial team members who have done a great contribution on this issue.

God Bless you all.



**ACTING VICE-CHANCELLOR
PROF. KITCHE MAGAK
MAASAI MARA UNIVERSITY**

The university management is Glad to release the current issue of online and print version of university magazine, called Enchorro Eng'eno, issue-1 January 2020. The contribution and dedication of faculty members, students and non-teaching staff of Maasai Mara university is continuously helping the magazine in stepwise manner for achieving new mile stone. The magazine provides a perfect platform to highlight the literary and artistic segments of the MMU family. The purpose of this university magazine is to unlock the hidden potential within the students and helped the students for self-motivation.

I want to extend my sincere thanks to my editorial team for the support to make this magazine stand out.

The university management welcomes the comments and suggestions to improve the quality of magazine but cannot make assurances about the use of provided material.

I am pleased to say that the management & staff is excellent & do not hesitate to put in their best in all college activities & up-gradation.

I would like to thank students, teaching & non-teaching staff for your kind & continued support in the progress of this Institution. May Almighty God shower his choicest blessings upon all.

Be true to yourself, help others, and make each day your masterpiece.



DVC (ACADEMIC & STUDENTS AFFAIRS)

PROF. BULITIA GODRICK

MATHEWS

Dear All,

Welcome to this pioneer edition of the University magazine championed by the Division of Academic and Students Affairs. This is a quarterly publication which will showcase what the University engages itself in as well as its academic programmes. It also aims at inculcating a culture of writing in both our staff and students and to encourage creativity and innovation. We thank the Council and the Vice Chancellor for creating a conducive environment which has enabled this Newsletter to come to life.

Academic and Students Affairs Division

The Academic and Students Affairs Division aims to be the leader in offering quality academic and students' welfare services. This means demonstrably adding value to University experience by working with all our stakeholders to solve critical challenges and making significant differences. Our Mission is to provide quality University education

through innovative teaching, research and consultancy services for development. We promote accountability, transparency, customer focus, empowerment and collaborations.

University Academic Orientation

Towards fulfilling its Vision of being a world class University committed to academic excellence for development, we have identified and carved a niche and sub-niche areas which include Tourism, Hospitality and Natural Resource Management, Water Resource, Environmental Management and Technology, Cultural Heritage and Social Development, Food Security and Health.

These niche areas determine the operations of the programmes the University currently offers. The University continues to re-engineer, review and develop market driven programmes in response to its overall niche as well as to existing and emerging concerns.

The University is addressing, through its academic and research activities, challenges facing the greater Mara-Mau area such as deforestation, water resource management, agricultural practices, wildlife conservation and tourism management.

Nexus with the Big 4 Agenda

The University is not only geared towards supporting the Government's development plans but also the Presidential Big 4 Agenda. Among others, the University has developed a programme in Bachelor of Science in Leather Production and Processing and is collaborating with the County Government of Narok, and other partners, to develop a tannery in order to take full advantage of the readily available raw materials. Similarly, the University is at an advanced stage of establishing a factory on Alternative Medicines (Herbal Medicine) to be supported by the Bachelor of Pharmacy which is under development under funding from DFID.

Maasai Mara university is also re-engineering its Bachelor of Computer Science to incorporate Artificial Intelligence and Robotics and Bachelor of Science in Entrepreneurship to Bachelor of Science in Entrepreneurship and Innovation which are expected to support the Manufacturing sector. University's programmes in Environmental Management and Agricultural Resource Management are aimed at strengthening Food Security in Kenya through training and research. The proposed programmes in Flood Management will also play a critical role in enhancing food security in Narok and other regions. The Bachelor of Urban and Regional Planning is also among the programmes supporting one of the Big 4 Agenda on Affordable Housing,

while the programmes in the School of Health and Applied Sciences; Bachelor of Science in Nursing and Bachelor of Science in Nutrition and Dietetics are enablers of the Agenda on affordable and Universal Health Care. These programmes also support the Government's efforts in offering programmes in Technical, Vocational Educational Training (TVET).

Research and Innovation

We have a clear academic profile with defined fields of excellence in research and innovation. The University's belief in a knowledge-driven economy informs its endeavors in undertaking meaningful research and innovation. In its quest to solve major challenges faced by societies, the University embraces interdisciplinary and trans-disciplinary approach to research. Through its research activities, we are able to generate evidence that informs strategic action and policymaking both at the county and national levels. In conclusion, we welcome and appeal to all scholars within and without the University, and other stakeholders, to take advantage of this platform in order to create a truly global effect in each of our respective capacities. We also invite industry players, collaborating partners and various institutions to take advantage of this publication and advertise their products.

Enjoy reading!



AG. DVC (ADMINISTRATION & FINANCE)

DR. JAMESI SIMIREN OLE NAMPUSHI

The University proposes to introduce an Electronic Magazine platform that envisages featuring virtually all the institution's activities of a particular academic calendar year.

This platform shall carry content in the realm of Linkages and Collaborations, Quality Services, ongoing Projects, visitors to the University and Emerging products and services

The move to adopt the electronic magazine that is proposed to carry as its title, the 'tagline" Enchorro Eng'eno (spring of Knowledge) is majorly intended to save on printing costs, optimize resources utilization, Minimize wastage, ensure Virility in terms of creating access to their target market .

Magazine will be global as there is no geographical barriers or state borders online. Every issue of a magazine can be bought by potentially everyone worldwide. This means that the creating opportunities for MMU by interfacing and exploiting social networks to increase our popularity thus creating more desired attention as well as income to the institution.

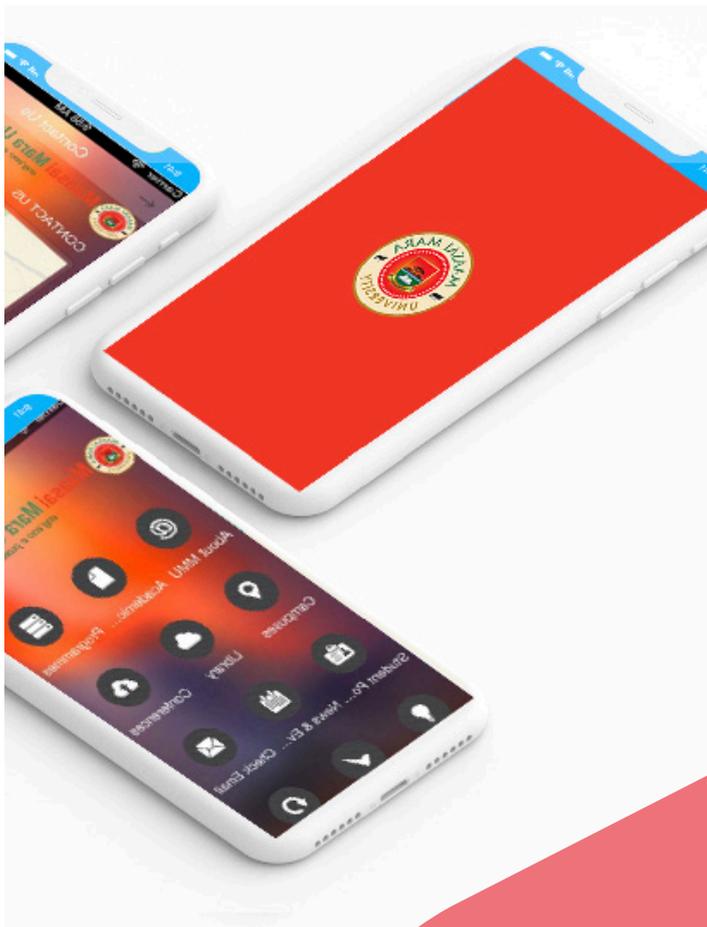
Through this electronic vessel aligned with social networks, readers interact with one another through comments, likes and private messages. But they also get in contact with the institution in the same way. This offers great chance to listen to target audience's feedback. Did they appreciate your latest issue or article? Do they agree with your point of view? Are you able to trigger dialogue among your readers?

The possibility of distributing the magazine all around the world through this platform is the basis for a well-known, strong and successful brand rather than relying solely on word-of-mouth marketing.

This initiative further proposes to advertize stake holder's businesses and related activities at a cost The University strongly encourages MMU fraternity to embrace the proposed transitioning to this sustainably futuristic proposal by urging all of you to subscribe so as to nature and grow the new version magazine.



MAGAZINE DEVELOPER, EDITORS & GRAPHICS DESIGNER ANIL KUMAR



INNOVATION & design

Welcome to the first edition of Maasai Mara University Magazine "Enchorro Eng'eno". Year 2020 is going to be a special year for Maasai Mara University with the launch of First Issue of our E-Magazine, which we have decided to publish during the graduation of 2019. The magazine will provide you various contents like article from faculty/staff and students in the following areas: Education, Health, Environment, Science and Technology, Business, Medicine, Management, Skill development, Research, Motivation etc. Magazine also covers stories about the news and events(Previous and upcoming), students life in campus, awards and achievements, visitors view, collaboration and linkages, programmes details, editorial page, new development, library new resources, participation, community services, innovation, poetry, new year calendar, motivational speech/poem. The contents in the magazine are the combined efforts of our academic, non academic, and students. The objective is to provide information, knowledge and become the professional with the use of latest technology. The magazine is available in electronics form(e-Magazine) but the hard copy will be provided on demand.

Our Team is dedicated to work on improvement and encourage all of you to provide your feedback and continue supports. I am also greatfull to our university management for their supports.

Finally, Special thank to Chairman Council, University Council Members and DVC (Academic and students affairs) for their support and motivation for this publication.

Best Regards

Enchorro Eng'eno

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Maasai Mara University

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NEWS & EVENTS CONTENT PROVIDER
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**BIG
STORY**

**MEMORANDUM OF AGREEMENT ON
COLLABORATION IN THE AFRICAN
BOTANICAL JOINT RESEARCH LABORATORY**



Delight rocks entire Maasai Mara University after successful signing of a long awaited Memorandum of Agreement on Collaboration in the African Botanical Joint Research Laboratory within the institution environs. The MOU is set to spearhead the construction of a factory that will produce cosmetics, nutraceuticals, nutrition etc.

The historic event took place on Thursday afternoon, 13th December 2018 at Serena Hotel Nairobi where three parties were involved: 1. Maasai Mara University 2. Botanic Diamonds Company Limited and 3, the Sino-African Joint Research Center, Wuhan Botanical Garden, Chinese Academy of Sciences.

Maasai Mara University was represented by some Members of the University Council led by the Council Chairman Dr. Samuel Agonda Ochola and University Management team led by the Vice-Chancellor Prof. Mary Walingo.

The Ministry of Education was also represented by Prof. A Mohammed who assured the Mara Varsity that the government recognizes the notable steps it has taken to enhance its quest for value addition regarding medicinal plants. He added that President Uhuru Kenyatta and the Education Cabinet Secretary Ambassador Amina Mohammed have welcomed collaborations and projects that are hatched by the Chinese Academy of Sciences (CAS)

The President of the Chinese Academy of Sciences (CAS) Dr. Chunli Bai spiced the memorable occasion citing that establishing a masterpiece Botanical Garden and processing plant at Maasai Mara University was strategic. He affirmed that the achievement will woo thousands of tourist not only to attest to the flora and fauna of the Seventh Wonder of the World, that is the Maasai Mara National Game Reserve, but also to enjoy the research prowess at Maasai Mara University.

A joint discussion at Maasai Mara University one day ago prior to today's signing of the MOU revealed that the MOU is likely to bring to reality the actualization of academic dreams of 25 undergraduate students annually through sponsorship with Kenya Shillings one million every year.



LATEST NEWS & EVENTS

KENYA HOT-SPOT ANALYSIS FOR COUNTY INTEGRATION DEVELOPMENT PLANNING RESEARCH PROJECT



February 19th 2019, saw the start of a 3-day visit beginning at the Maasai Mara University by the UK National Centre for Earth Observation to Kenya. Their visit was to review progress on the research project on Kenya Hot-Spot Analysis for County Integrated Development Planning led by Professor Jacquie McGlade, Director Sekenani Research and Training Centre and discuss new areas of research and training collaboration. The hot-spot project is part of Prosperity Co-laboratory Kenya and aims to analyse environmental and agricultural change hotspots in the Mau complex, and Vihiga and Elgeyo-Marakwet counties as inputs to county and national decision-making and climate change policies. The project will provide a demonstration of data interpretation across

scales using artificial intelligence techniques to integrate earth observation, national topographic mapping and community-based agriculture and ecosystem observation and records; mobile platform for community data acquisition; e-learning modules and datasets to support Kenya's County Integrated Development Planning; and be a demonstration project within the African Regional Data Cube. After a traditional Maasai welcome, the new Deputy Vice-Chancellor, Professor Butilia Godrich Mathews opened the meeting underlining the importance of research in universities and the vital role of international collaboration. The meeting then heard about work at the university's Sekenani Centre (McGlade) and the UKNCEO (Director,

Professor John Remedios, Professor Heiko Baltzer and Dr Luke Smallman). Representatives from the community teams also gave an overview of the community science, field work and ground truthing in the Mau forest complex and Vihiga (Kipepeo Community). The meeting then heard from Maasai Mara University staff and collaborators participating in the project about the results of the agriculture and forest surveys (Professor Frances Mburu and Simon Wachila), remote sensing (Dr Samson Mabwoga) and e-learning (Anil Kumar). During the visit, the team was given the good news that additional funds had been awarded to further develop

the e-learning modules on the use of earth observation and community mapping in county development plans. The delegation went on to Nairobi to meet with other team members from Strathmore Business School, the Kenya Space Agency and the Office of the Deputy President and to discuss future research strategies for space science and open government policies. The project will be presented at the upcoming launch of the newly constituted Kenya Space Agency.



MMU PITCHES HOMESTRETCH TOWARDS PARTNERING WITH ILKERIN LOITA INTEGRAL DEVELOPMENT PROJECT

Maasai Mara University keeps soaring high in creating collaborations and partnerships geared towards promoting quality teaching, research and innovation. The latest move is where it is almost finalizing a partnership with Ilkerin Loita Integral Development Project. The university team that represented the Vice-Chancellor Prof. Mary K. Walingo was led by the Deputy Vice-Chan-

Student Affairs Prof. Bulitia Godrick Mathews. Prof. Walingo has been instrumental in championing and enhancing the success of collaborations and partnerships that support the varsity's quest for the prosperous knowledge-based economy. The MMU group had deep discussions with stakeholders from the project. The Ilkerin Loita Integral Development Project lead-

ers said that have been together due to their common interests such as: (1) Joint fundraising and resource mobilization, (2) Project development and implementation, (3) Sharing of physical facilities, (4) Institutional capacity building, (5) Management of staff training, (6) Joint research and innovations. The institution yearns to work with the Loita Community members running the programme so as to establish the research, training as well as job creation hubs. Signing a Memorandum of Understanding (MoU) is underway. The MMU team was also

composed of the University Senior Legal Officer Miss Mercyline Njoroge, the Dean of Students Mr. Mohamed Abdullahi Adan, the Director Career Services and Students' Advisement Dr. Augustine Kara, The Dean School of Tourism and Natural Resources Management Prof. Aggrey Thuo, the Chair of Department - Department of Environmental Studies, Geography and Agriculture Dr. Kamundia Waweru, Tutorial Fellow; Department of Forestry and Wildlife Management Mr. Shani Petenya.

CONSTRUCTION OF HERBAL MEDICINE FACTORY LOOMS



The Botanic Diamonds Limited has increased hopes of Maasai Mara University establishing a state-of-the-art Herbal Medicine Factory. The good news was authenticated by the company visiting the Varsity accompanied by a contractor assigned to actualize the project. The team of three were toured to the allocated factory land where they surveyed and ascertained that the land is suitable for the construction of the factory. The site visit will now enable them to develop an architectural impression of the foreseen factory. The Vice-Chancellor Prof. Mary Walingo was represented by the Acting Deputy Vice-Chancellor Administration, Finance and Planning Dr. Osano Aloys. He led Prof. Dr. Wycliffe Wanzala, Mr. Burgei Peter and Denison Cheserem in a discussion towards fast-tracking construction of the factory.

MAASAI MARA UNIVERSITY TO EMBODY PHARMACY AND CHEMISTRY INNOVATIONS

Having an edge over other Institutions of Higher Learning, especially in disciplines that foster scientific innovations, is the sole aim of every University; Maasai Mara University is not exceptional. The zeal has seen the School of Science and Information Sciences of the Varsity conduct a two-day intervention with three educational developers from the University of Nottingham. Professor Nathan Oyaro and Dr. Stella Chelagat led the Maasai Mara team during the sessions.

The move seeks to develop a Chemistry and Pharmacy Centre at Maasai Mara University that will be instrumental in imparting through this ingenuity, students will gain hands-on expertise and familiarizing themselves with opportunities offered in the industry and the ever dynamic job market.

knowledge and skills to students in such fields of knowledge, ultimately fostering creativity and innovation.

This project is being spearheaded by the



Strategic Partnerships for Higher Education Innovation and Reform (SPHEIR). The SPHEIR is the sole body funding projects of

such magnitude in selected universities globally. Maasai Mara University becomes the fourth entrant among Kenyan Universities

MAASAI MARA UNIVERSITY TO REAP FROM THE KONZA TECHNOPOLEIS DEVELOPMENT AUTHORITY FOLLOWING THE KICKOFF OF THE KONZA CITY KENYA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY (KAIST) PROJECT

Maasai Mara University through its Vice-Chancellor Prof. Mary K. Walingo and the Deputy Vice-Chancellor Academic and Student Affairs Prof. Bulitia Godrick Mathews has spearheaded the quest to apportion part of the KONZA City land, also known as the Smart City to universities. The Mara varsity is honored to be among the identified universities to benefit in the allocation of KONZA City resources for universities. The Chairman KONZA Technopolis Development Authority Prof. Reuben M. Mutiso, the Chief Executive Officer KONZA Technopolis Development Authority Eng. John Tanui and Kilome MP Hon. Eng. Thaddeus K. Nzambia in their discussion with the Maasai Mara University Vice-Chancellor Prof. Mary K. Walingo promised to support Maasai Mara University to be one of the treasured partners in the coveted KONZA Technopolis Development Authority.

Maasai Mara University Vice Chancellor affirmed that Smart City will be a solution to enabling the country to achieve the highest standards of quality research and innovation outputs. Her presence and quest to have the Mara Varsity to be allocated space within the Smart City heightened the pursuit and Mara which was not initially featuring among the varsities to benefit in securing space at KONZA City became the latest entrant partner. According to Prof. Bulitia who also doubles as the interim Chairman of the National Construction Authority (NCA) Board, the KONZA City is a blueprint of government project meant to hatch an international technological hub that will satisfy all sectors in the country.

The forecast KONZA City sits on a 5,000 acres land where NCA has secured a section and the education sector has followed suit. "University sector has been allocated a section of the KONZA City land to advance on Technology, Research and Innovation. The varsities will have their Research and Innovation hubs and incubations where exhibitions will thrive and throng," Prof. Bulitia said. This will also be aligned to all other levels of education from primary to tertiary levels. The University also stands to benefit from the Korea-Kenya bilateral partnership which is at an advanced stage.

The Principal Secretary, State Department of University Education, Ministry of Education Prof. Collette A. Suda led delegates from KONZA Technopolis Development Authority, Maasai Mara University and other stakeholders in touring the initial ongoing KONZA City projects.



This culminated in the Ministry of Information, Communication and Technology as well as the Korean Advanced Institute of Science and Technology (KAIST) kicked off the setting up of the Kenyan Advanced Institute of Science and Technology (KAIST). Speaking during the kickoff ceremony, the Principal Secretary, State Department of University Education, Ministry of Education Prof. Collette A. Suda promised that the project is in the right hands. She added that the government will support the project that is paramount in making KONZA City a centre of quality research and innovation. She also noted that Kenya is technologically advancing at an appreciable pace but

campaigned for Science, Technology and Innovation (STI) career trends. "We are very focused on where we want to go and on which path to follow. The main role of KAIST is providing specialized training in various engineering areas to help us as a country to meet the standards of our partner Korean KAIST that has advanced from Agrarian to Knowledge economy", Prof. Suda said. The Principal Secretary Ministry of ICT Mr. Jerome Okoth Ochieng supported the move assuring that Kenya will move from labour economy to knowledge based economy through prioritizing careers in Science, Technology and Engineering. He added that other universities in Kenya are welcomed to invest in

KONZA City through the creation of their innovation hubs within KONZA City. Jerome also called for Kenyans to uphold highest level and dignity regarding Intellectual Property Rights. He cautioned against parties taking advantage of young or unsuspecting innovators who rush to patent artistic and creative pieces generated by others as their original work. Jerome also called for Kenyans to uphold highest level and dignity regarding Intellectual Property Rights. He cautioned against parties taking advantage of young or unsuspecting innovators who rush to patent artistic and creative pieces generated by others as their original work. The Korean Ambassador to

H.E Amb. Choi Yeonghan applauded the initiative saying that it will help Kenya attain international standards and draw great opportunities for economic milestones. "Korea's support for Kenya drives the support of KAIST establishment so as to realize the Big 4 Agenda and the Vision 2030 through disciplines in Science, and Technology," Choi said. Security agencies in the area promised to offer the best services to ensure that the KAIST project and the KONZA CITY entirely is achieved. They maintained that there is no development without security. They urged residents to welcome the projects by providing ample working environment and support to stakeholders.

MAKE INFORMED DECISIONS ON REPRODUCTIVE HEALTH , STUDENTS URGED



Students wrapped up the second last week of February 2019 with bumper harvest on reproductive health knowledge.

They earned the knowledge from experienced medical experts and practitioners from reputable

health centers in Narok County. The Dean of Students Office through the University Counselling Centre organized a two-day reproductive health campaign and talks that took place on Thursday 21st and Friday 22nd February 2019. The activities centered on education about contraceptives, pregnancy/ abortion, sexually transmitted diseases, cervical cancer, HIV/AIDS among others. The goal was to help students to prioritize being mindful of their bodies as well as improving access to information and better empower them to make informed decisions . This is due to increased demand for authentic , professional and updated knowledge on responsible sex and reproductive health

education amongst youths. Notable speakers included ; Dr. Sarah Okebe and her team from Narok county Referral Hospital composed of Dr. Michelle Opaka , Toroitich Chesang and Elizabeth Siamanta . Besides , Dr . Luke Kimani and Chepng'etich Sambu of Shepherds Hospital - Narok (Sagam) also shared their knowledge with students. The Maasai Mara University staff that spearheaded the events were lead by the Dean of Students Mr. Mohamed Abdullahi Adan, Student Counsellor Asbetty Keshei and the Nursing Officer Naomi Lilau.

STUDENTS YEARN TO GRASP CAPITAL MARKETS ULTIMATE PRIZES



High hopes of Maasai Mara University students bagging prizes in ongoing National Capital Markets University Challenge have been amplified by two students qualifying for the semi-final stage of the competition. Lorna Waweru Wanjiru and Robin Juma now have an exceptional task of lighting the world of capital markets with skills and knowledge

earned at Maasai Mara University. The two topped among ten contestants who presented research papers centered on the harnessing opportunities offered by capital markets. Lorna Waweru Wanjiru and Robin Juma now have an exceptional task of lighting the world of capital markets with skills and knowledge earned at Maasai Mara

University. The two topped among ten contestants who presented research papers centered on the harnessing opportunities offered by capital markets. The two will face off from other competitors countrywide in the Fourth stage before the final one

which will saw winning student bag cash prizes and learning materials to their universities. This is an inter-university competition that will primarily focus on testing the participants' knowledge and understanding of capital markets and financial issues.

DRAW US CLOSER, OVERSEAS STUDENTS AFFIRM

Maasai Mara University has been lauded for being a center of attraction to overseas students who visit Kenya for research, vacation and community building initiatives. This has been attested through a courtesy call by international students who visited the institution marveling on the serene learning environment despite Maasai Mara University sitting in a semi-arid area. The students were drawn from eight countries across the globe; namely United States of America (USA), South Africa, Argentina, Zimbabwe, Uganda, Malawi, Ethiopia not forgetting those from Kenyan universities. The students have been at the Africa Hope Society for a missionary mission and sought to set foot at Maasai Mara University to interact with Maasai Mara University students hence exchange ideas and experiences.



IS THERE ANYTHING MORE FROM CHINA FOR MAASAI MARA UNIVERSITY?

As the government of Kenya strengthens ties and partnerships with the Chinese Government, Maasai Mara University is fortunate and ahead of many other public varsities in Kenya, warmly welcoming and engaging varied and meaningful partnerships and collaborations from China. These prospective mergers emanate from reputable academic and industrial institutions and firms that seek to extend their skills, knowledge, expertise and resources to Kenya. Chinese Academy of Sciences (CAS) Sino-Africa Joint Research Centre (SAJOREC), Government of Hubei Province, the Science and Technology Department of Hubei Province, and the Hi-Tech Enterprises of Hubei Province visited Maasai Mara University. They were led by Professor Guo Yuejin to meet with members of staff from the University headed by the Acting Deputy Vice-Chancellor DVC (A F & P), Dr. Alloys M. Osano and Prof. Dr. Wycliffe Wanzala. The meeting bore a concrete discussion on the different levels of potential collaboration and partnership that Maasai Mara University can harness. Notably, the areas in line with the Big Four Agenda spearheaded by the Kenyan Government were treasured. production, Automobile, Telecommunication, Aquaculture in line with the Blue Econom, Leisure, Biological Sciences, Culture, Academic exchange programmes,



These areas included: Industrial Scientific research, Scholarships, Business incubation centre and, Entrepreneurship. The delegation also visited the University Botanical Garden and the CAS-MMU Joint Laboratories to witness the progress of the two Chinese-funded projects.

This comes four days after Maasai Mara University successfully signed a Memorandum of Agreement (MoA) on collaboration in the African Botanical Joint Research Laboratory within the institution's environs. herbal products, cosmetics, nutraceuticals, nutrition etc.

The historic event took place on Thursday December 13th, 2018 at Serena Hotel (Nairobi) where three parties were involved in signing the MoA: 1. Maasai Mara University 2. Kenya Botanic Di-amonds Company Limited and 3. Sino-African Joint Research Center, Wuhan Botanical Garden, and Chinese Academy of Sciences.

MMU TO PARTNER WITH CLEMSON UNIVERSITY AND NAROK COUNTY GOVERNMENT



Maasai Mara University's relationship with the Narok County Government and overseas education stakeholders has gone a notch higher. This is after holding healthy discussions to hatch partnership and collaboration between Prof. Aggrey Thuo, Mara Varsity, Clemson University from USA and Narok County Government. The Deputy Vice-Chancellor Academic and Student

Affairs Prof. Bulitia Godrick Mathews, the Acting Deputy Vice-Chancellor Administration, Finance and Planning Dr. Osano Aloys, the Dean School of Tourism and Natural Resources Management and lecturer Mr. Salaton Tome represented the Maasai Mara University fraternity.



LEARNING ENVIRONMENT

PARTNERSHIP BETWEEN MAASAI MARA UNIVERSITY AND FUJIAN ACADEMY OF AGRICULTURAL SCIENCES

Maasai Mara University signed a Memorandum of Understanding (MoU) with Fujian Academy of Agricultural Sciences, Fujian China. FAAS has a total of 16 specialized institutes. Maasai Mara has an opportunity to collaborate in the areas of Animal Husbandry and Veterinary Medicinal, plant protection, crops agricultural engineering and technology, Academic exchange programmes. Maasai Mara University through the office Deputy Vice-Chancellor, Administration, Finance and Planning and Directorate of Linkages received the donation of books from the Chinese Publishing delegation. The Chinese Publishing delegation had a book fair and exhibition in Nairobi.



The Chinese Publishing delegation agreed to support Maasai Mara University by sourcing more books from the Chinese Publishing Companies.

It was agreed that Maasai Mara University, through the University library to forward a list of books

required to the Chinese Publishing delegation through Prof. Xue Yan, Executive Director SAJOREC.

WE'RE MOVING THE UNIVERSITY FORWARD, MAASAI MARA UNIVERSITY STAFF AFFIRM



Maasai Mara University Staff has vowed to walk and work in solidarity towards the realization of the University's core business of being an epitome of academic excellence, research, and innovative teaching.

This was realized on Monday 16th September 2019 during an open forum where members of staff shared their dreams on how Maasai Mara University can be best and easily managed to attain its goals.

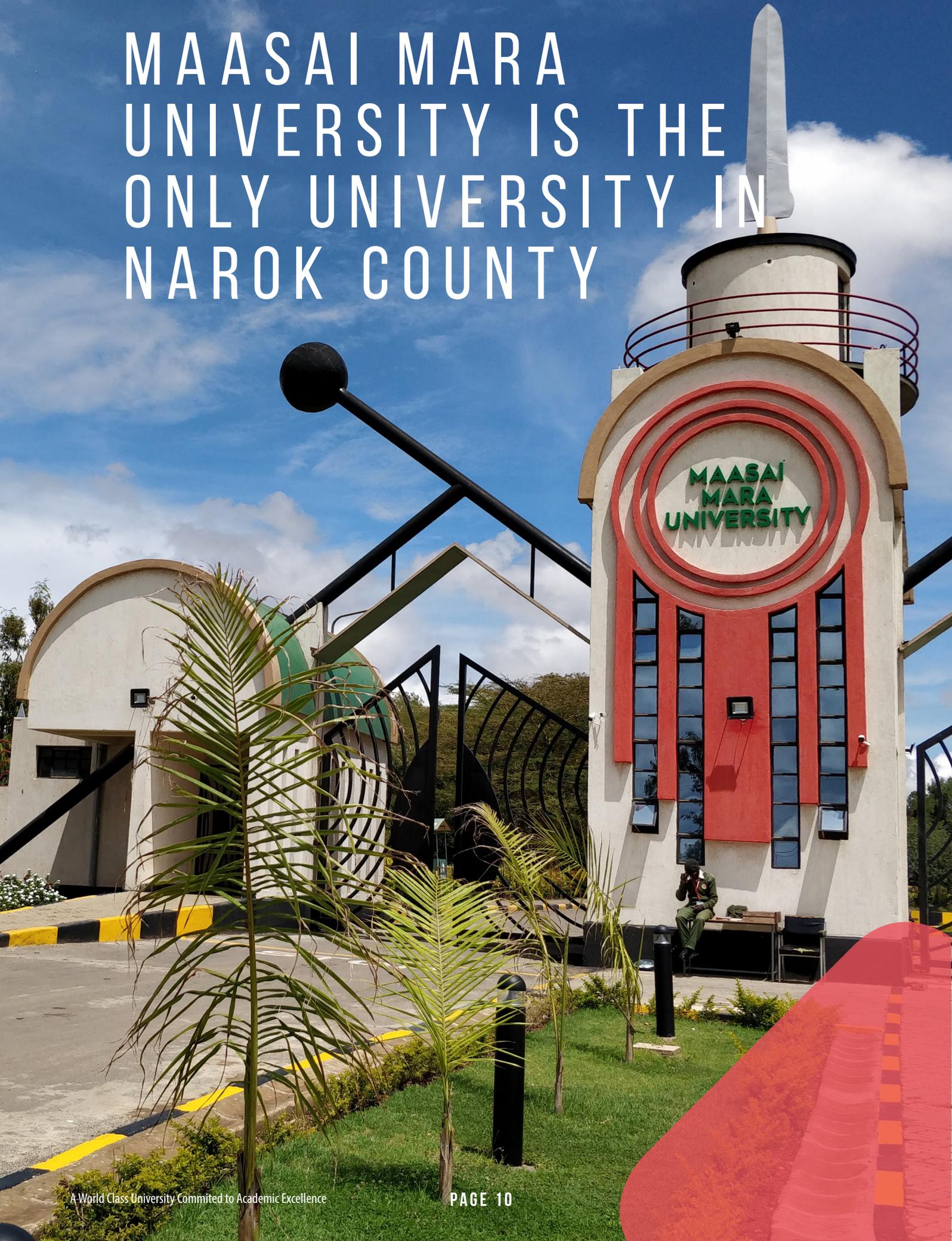
The management team was led by the Acting Vice-Chancellor Prof. Kitche Magak accompanied by Union Officials drawn from the Universities Academic Staff Union (UASU), Kenya Universities Staff Union (KUSU) and Kenya Union of Domestic, Hotels, Educational Institutions, Hospitals and Allied Workers (KUDHEIHA).

Both the management and staff resolved to enhance their service delivery by running all affairs both in the academic and administrative divisions more professionally and legally as outlined in the Universities Act No. 42 of 2012.

The zeal to have Maasai Mara University embody the realization of the Big Four Agenda and the Vision 2030 through quality teaching, research and learning, as well as staff training, was emphasized as staff members kept giving their inputs to the administration.

Members of the University Management who accompanied the Acting VC were the Deputy Vice-Chancellor Administration Finance and Planning Prof. Mohamed Abdille, Dr. Erick Fwaya representing the Deputy Vice-Chancellor Academic and Student Affairs, the Registrar Administration Mr. Samuel Partoip, the Registrar Academic Affairs Dr. Otieno Fredrick.

MAASAI MARA UNIVERSITY IS THE ONLY UNIVERSITY IN NAROK COUNTY



5



HABITS

To Avoid in your Academic Writing

As professors and researchers, you are responsible for writing research proposals, authoring academic books and scholarly journals, and designing and teaching courses. After editing thousands of pieces of academic writing, our editors have compiled five of the most common mistakes that academics make and offer suggestions on how to avoid them.

WHAT MORE?

KNOW MORE ABOUT THE UNIVERSITY PLAGSCAN SOFTWARE.

CONTACT THE OFFICE OF DIRECTORATE OF POSTGRADUATE STUDIES

1 Passive voice

The passive voice tends to spring up in academic writing when the “doer” of an action is indefinite or unknown, when a researcher feels uncomfortable using subjective pronouns like I or we, or when the result of the action is more important than who acted. In these cases, the passive voice can be appropriate in academic writing, especially when rephrasing the sentence would introduce absurdity or unnecessarily complicated phrasing.

2 Needlessly complex sentence structure

Much academic writing contains sophisticated and complex thinking, as it should. However, the writing used to express this thinking does not have to be convoluted or unclear.

Meandering clauses, dangling modifiers, and the like are so common in academic writing that one scholarly journal began holding a contest to choose the worst sentence of the year.¹ Whether you can make heads or tails of these sentences is beside the point. The goal of writing is to communicate your ideas. Furthermore, academic writing that seems almost deliberately unclear makes our academic editors, as well as scholarly readers, wonder whether the author even understands what he or she means to say.

3 Trumped-up vocabulary

Academic writing is also famous for using an abundance of esoteric complicated vocabulary that does little to convey the meaning clearly. While much academic writing is targeted to an “insider” audience (readers who will know and understand the technical vocabulary of a given field), some writers go overboard, choosing the multisyllabic and rarely used synonym instead of a plain but effective word. Try to keep jargon and obscure language to a minimum. Always remember that your goal is to communicate your ideas, not hide them in obscure terminology.

4 Overuse of footnotes

Footnotes are a useful way to include information that has value but falls outside the scope of a paper’s main focus. Sometimes, though, academic writing overuses footnotes, and the reader suffers. We recommend asking yourself: are all your footnotes justified? If the information is important enough to warrant its own footnote, it may just be important enough to be included in the body of the paper.

5 Plagiarism

This one’s more than a bad habit in academic writing—it could get you expelled or fired. Some plagiarism is intentional, but more often than not, disorganized research and careless writing are to blame. Avoiding plagiarism is simple: Any time you use someone else’s words, give credit to the source. Slow down and pay attention. Take good notes. Stay cautious and over-cite. Make sure the information in your bibliography is accurate and complete. Authors work hard on their research and writing—give credit where credit is due.



Prof. Dr. Wycliffe Wanzala,
PhD, AMATINER, MACSE, MISE, FASI.

Associate Professor,
Director of The Institute of Ethnobiology
and Ethnomedicines

Maasai Mara University has partnered with The Wuhan Botanical Garden (WBG) of the Chinese Academy of Sciences (CAS), and in collaboration with Sino-Africa Joint Research Centre (SAJOREC) to establish an African Medicinal Botanical Garden at its Main Campus. The partnership and collaboration was made possible through the existing cordial relationship between Kenya and the People's Republic of China (PRC). This idea of collaboration of a Chinese-aided China-Africa Joint Research Centre in Kenya, where African and Chinese researchers would conduct joint research, was conceived during deliberations between Prof. Robert W. Gituru of Jomo Kenyatta University of Agriculture and Technology (JKUAT) and his Chinese research counterpart, Prof. Wang Qing Feng, in 1999.

Ever since its establishment, the Sino-Kenya ties has yielded a lot of fruits, among them, the 'Sino-Kenyan Scientists' Workshops', the JKUAT Botanical Garden, training sessions for African stakeholders to various Universities and research institutes in China, scholarships for Kenyan students to the prestigious University of Chinese Academy of Sciences, and the on-going work at the African Medicinal Botanical Garden (AMBG) and Research Laboratories at Maasai Mara University, Narok County. The AMBG layout is human-based and serves as one of the main ex-situ and in-situ conservation sites in Kenya, as a resource centre for medicinal plants for study, research and consultancy, and as well as being a centre for information dissemination on ethnobotanicals, ethnomedicines and general ethnoknowledge. Upon successful completion of the AMBG, there is great need for advanced laboratories equipped with high quality facilities and equipment for research and production of ethnomedicinal-based products for local and international consumption.

Continue reading @ Page 18.

BOTANICAL GARDEN



THE ACTING VICE-CHANCELLOR PROF. KITCHE MAGAK ENGAGES FIRST-YEAR STUDENT WHILE DELIVERING HIS SPEECH DURING THE FIRST-YEAR STUDENTS ADDRESS CEREMONY AT MAASAI MARA UNIVERSITY



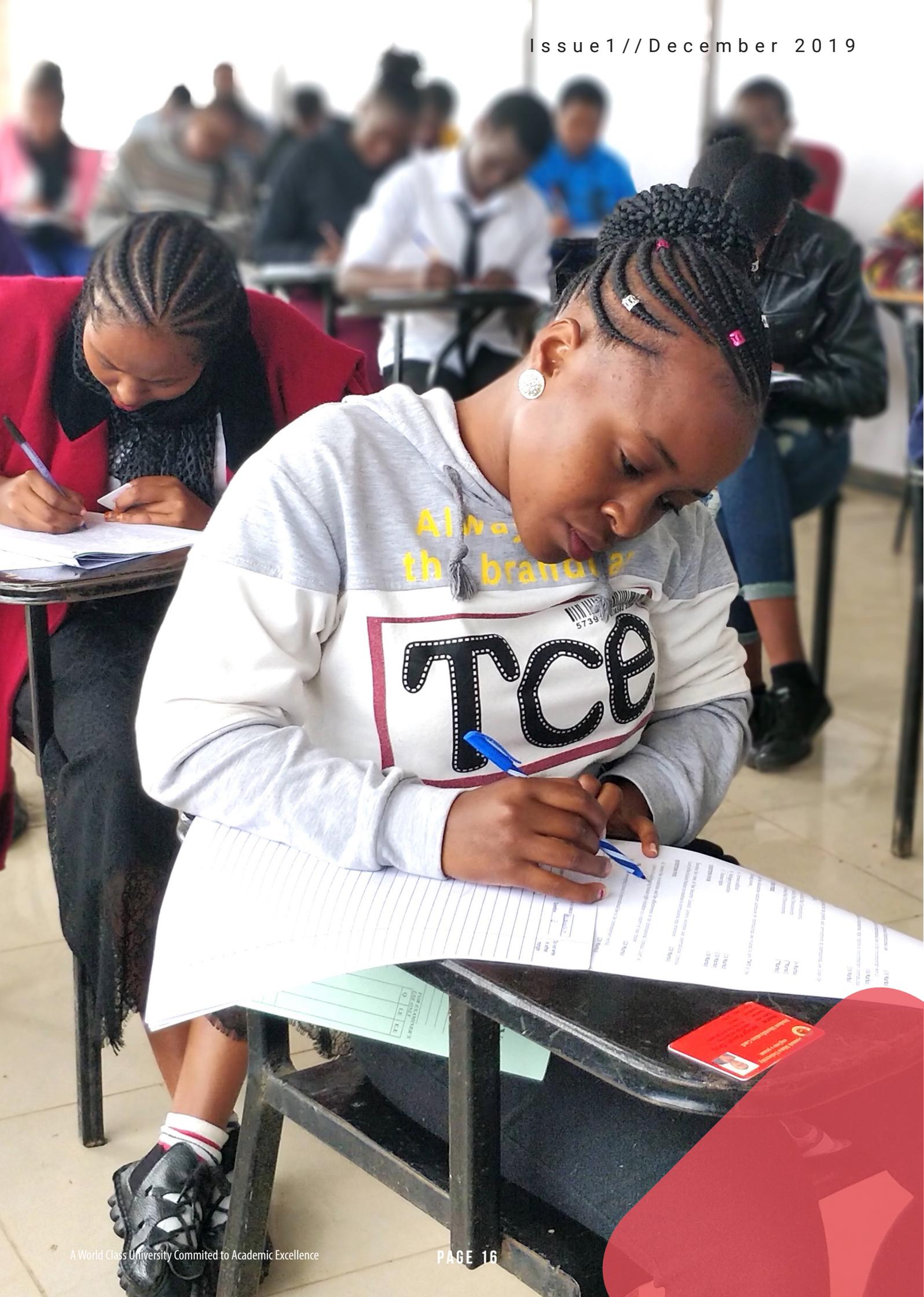
New students at Maasai Mara University have been urged to prioritize their moral uprightiness and responsible reproductive health so as to ease the realization of their academic goals. Speaking during the matriculation ceremony for First-Year students to Higher Education life at Maasai Mara University, the Acting Vice-Chancellor Prof. Kitche Magak emphasized the need for fresh students to be vigilant regarding their integrity and dignity. He reminded them not to be obsessed with current freedom. "I know you come from backgrounds where there were lots of restrictions. Good restrictions! Here you are virtually on your own and if you do not manage this freedom properly, there would be tears at the end," Prof. Kitche Magak said. Sexual immorality can frustrate

your academic and health focus. Prof. Magak gave a case study of how those who messed with their reproductive health over 30 years ago when they joined campus together ended up losing their coveted dreams and lives. "I was at the university when the big deal was HIV/AIDS. That was the big deal and a lot of my friends did not graduate because they died. So, part of the management of that freedom is how you are going to manage your sexuality. My experience is that we have had so many people, in the First Year they are fine, in the second Year they are almost fine, in the Third Year they start looking frail in Fourth Year they are gone. I am telling you; this is reality. When you get into this University, please take care of your reproductive health because that is a killer,"

Prof. Kitche Magak emphasized that students should be mindful of their security both within and outside campus, being each brothers' keeper and adhering to all legal frameworks and habits that do not infringe on the security rights of their colleagues and other staff. He also added that students should be mindful of their security both within and outside campus, being each brothers' keeper and adhering to all legal frameworks and habits that do not infringe on the security rights of their colleagues and other staff. "Today, our country is in serious security threats; universities included. We appeal to you all to be vigilant and to help yourself and your neighbor. There will be lessons on how to deal with situations of a threatening nature. You also need to exercise your rights in a responsible and patriotic manner and avoid going into harm's way," Prof. Bulitia Godrick Mathews emphasized.

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**ANSO-MMU-SAJOREC INTERNATIONAL
CONFERENCE 4TH – 6TH SEPTEMBER
2019**



Continue from Page 14.....

Current State of the AMBG

The AMBG project commenced by planting a few available medicinal plant species from the nurseries of trees of Kenya Forestry Research Institute (KEFRI) and elsewhere in its branches during the rain season of November, 2017. The first ever medicinal plants planting session was done in 2017 in the Main Campus with the Theme: Scaling the Heights of African Medicinal Botanical Gardens. Additional planting takes place with medicinal plant species, which are raised in a major plant nursery established at the University's Main Campus. Currently, there are about 200 plant species under in-situ and ex-situ conservation in the AMBG. Additionally, this is a recreational facility for filming industry, video recording and shooting, nature trail, picnics, etc. Plans are under way to establish Honey Production Unit within the AMBG to be used as medicines as well as food supplement. The University is also establishing Tree Nursery Production Unit within the AMBG for commercial purposes. Following the signing of MoUs with Medical Ethnopractitioners nationwide, Maasai Mara University will establish Farmers' Field School (FFS) to help Ethnopractitioners train and learn :-

- a. Bio-prospecting, biopiracy and Intellectual Property Rights (IPR) policy.
- b. Ethnobotany and Ethnomedicine Practices: flora and fauna as sources of medicines, nutraceuticals, aromatics, cosmetics etc.
- c. In-situ and ex-situ conservation strategies of flora and fauna in Botanical Garden
- d. Tree nurseries development and management.
- e. Environmental conservation mechanisms and combating desertification.
- f. Medicinal plants' identification, harvesting, preparation, processing products, packaging, storage techniques, marketing and sales strategies.
- g. Zoopharmacognosy and its applications.
- h. Development and management of medicinal woodlots in arable farming systems.
- i. Ethnopharmacy and Ethnopharmaceutics.
- j. Ethnohealth knowledge and socio-cultural life.
- k. Herbarium Techniques and Plant Taxonomy.

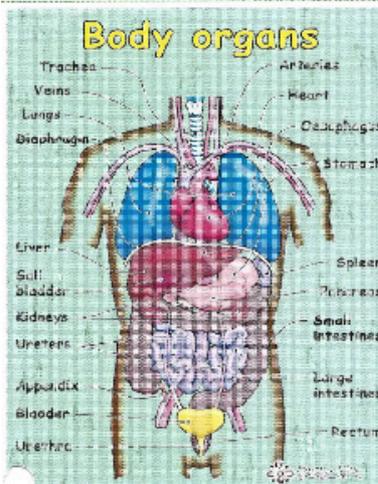
The University has embarked on a mission to partner with Ethnopractitioners in 47 Counties in Kenya through signing of a Memorandum of Understanding (MoU). One of the objectives of the MoU is to create woodlots in arable farming systems for every ethnopractitioner who signs MoU with the University. These woodlots are to supply timber for construction and reduce the cost of constructions as well as becoming a resource for pharmaceuticals, nutraceuticals, cosmetics, aromatic, food supplements & fortification etc.

By industrializing ethnopractitioners' knowledge, mind and experiences to develop medicinal woodlots in their own arable farming systems, helps the government's strategies and efforts in environmental conservation and to combat desertification and increase the county's forest cover as well as increasing and making housing resources available and accessible, henceforth, reducing the cost of construction at local level. It is anticipated that food

fortification will be carried out at the AMBG of the University through its envisioned Herbal factory. Fortified and enriched foods can be a part of a healthy, nutrient-rich diet and is known to fight off many common diseases that are caused by nutrient deficiencies, like rickets and pellagra. This will be designed to increase food supply and improve qualities along market chains. Preparation of food products such as varieties of vegetables, fruits and herbal teas for both local and export market.

Medicinal plant partition layout

药用植物分区布局



人体 human organ	人体系统 human system
肺 lung	呼吸系统 Respiratory system
肝 Liver	免疫系统 Immune system
肾 Kidney	循环系统 Circulatory system
心 Heart	内分泌系统 Endocrine system
脾 Spleen	消化系统 Alimentary system

Arrangement 园区布置平面图

- 3. 观赏药用&园林观赏植物展示区 Medicinal & Garden Ornamental Plant
- 4. 水生植物展示区 water plant
- 5. 园林景观展示区 Garden Ornamental Plant
- 6. 免疫系统药用植物区 Immune System



总面积：88亩



MAASAI MARA UNIVERSITY

ENGINEERING (KNOWLEDGE FOR PROSPERITY)

Calendar
2020



January 2020

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
5	6	7	1	2	3	4	5	6	7	8	9	10	11
12	13	14	8	9	10	11	15	16	17	18	19	20	21
19	20	21	15	16	17	18	22	23	24	25	26	27	28
26	27	28	22	23	24	25	29	30	31				

February 2020

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29

March 2020

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7	8	9	10	11	12	13	14
15	16	17	18	19	20	21	22	23	24	25	26	27	28
29	30	31	25	26	27	28	29	30	31				

April 2020

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
5	6	7	8	9	10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27	28	29	30		

May 2020

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
31	1	2	3	4	5	6	7	8	9	10	11	12	13
17	18	19	20	21	22	23	24	25	26	27	28	29	30

June 2020

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7	8	9	10	11	12	13	14
21	22	23	24	25	26	27	28	29	30				

July 2020

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
5	6 Management Meeting	7	8 Dean's Committee Meeting	9	10	11	12	13	14	15 Board of PG studies meeting	16	17	18
12	13	14	15	16	17	18	19	20	21	22	23	24	25
19	20	21	22	23	24	25	26	27	28	29	30	31	1
26	27	28	29	30	31	1	2	3	4	5	6	7	8

August 2020

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30	31 Reporting to registration of new students	1	2	3	4	5	6	7	8	9	10	11	12
16	17	18	19	20	21	22	23	24	25	26	27	28	29
23	24	25	26	27	28	29	30	31	1	2	3	4	5

September 2020

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
6	7 Classes commence	8	9	10	11	12	13	14	15	16	17	18	19
13	14	15	16	17	18	19	20	21	22	23	24	25	26
20	21	22	23	24	25	26	27	28	29	30	31	1	2

October 2020

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
4	5	6	7	8	9	10	11	12	13	14	15	16	17
18	19	20 Mashujaa Day	21	22	23	24	25	26	27	28	29	30	31

November 2020

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7	8	9	10	11	12	13	14
15	16	17	18	19	20	21	22	23	24	25	26	27	28
22	23	24	25	26	27	28	29	30	31	1	2	3	4

December 2020

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
6	7	8	9	10	11	12	13	14	15	16	17	18	19
20	21	22	23	24	25	26	27	28	29	30	31	1	2

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www.mmarau.ac.ke

SECURITY FORCES RUSH TO ENDORSE ENVIRONMENTAL SECURITY

Service, the National Youth Service (NYS), Kenya Wildlife Service (KWS), Kenya Forest Rangers and Narok County Rangers. "We have stable programmes in Environmental Planning and Management alongside other disciplines that are crucial in steering forward environmental conservation by imparting conservation skills and knowledge to students whom we churn out every year to go and save Planet Earth from Environmental degradation. It is unfortunate that deforestation is being propelled at worrying levels but we are here to offer solutions through planting trees within the University hence leading by example. She also appreciated the National Government for choosing Narok County to host this year's Madaraka Celebrations as it has given Maasai Mara University a golden opportunity to offer training grounds

and accommodation to the troops. Besides, Prof. Walingo hinted that the University has a plan to set up a factory that will manufacture medicinal herbs in the masterpiece Botanical Garden to help the Kenyan and International community to root out chronic diseases. Exporting the drugs and growing trees as raw materials will boost Kenya's economy with farmers benefiting. Ultimately, the Mara Ecosystem and the Mau Water Towers will revert to its initial nature as a main water catchment area serving East African Rivers. The DVC Academics and Students Affairs encouraged staff and students to advance their skills and knowledge in career hence excellent service delivery in the security sector. Maasai Mara University strives towards offering e-learning opportunities that will enable staff and students learn from wherever they will be.

Maasai Mara University community has urged Kenyans to support environmental conservation initiatives that Security Professionals have demonstrated. Speaking at a briefing during a mega

tree planting exercise at the university, Prof. Walingo lauded the men and women in uniform for planting ten thousand tree seedlings. The security officials were drawn from the Kenya Defence Forces (KDF): the Kenya Army, the Kenya Airforce, and the Kenya Police all the units in the Kenya Police



MMU JOINS MAU FOREST RESTORATION



Maasai Mara University being the sole University that has positioned itself as a Centre of excellence in Environmental Resource Management focusing on Natural Resources and Tourism among other coveted disciplines, joined the world in the historic step to restore the Mau Forest Water Towers Complex. The Maasai Mara University community attended the national tree planting exercise in November 2019 at the Mau Forest. The Cabinet Secretary Ministry of Environment and Forestry Keriako Tobiko led residents to launch a move to plant over ten million indigenous tree seedlings after people who had settled in the Mau Forest left to pave way for the restoration. The university donated 10,000 tree seedlings and total of 200,000 seedlings were planted that day with 60 Million seeds were to be propagated aerially by helicopters. Participants from Maasai Mara University were 70, both staff and students who were led by the Marketing and Public Relations Director Dr James Nampushi. Maasai Mara University has been passionate about protecting the Mau Water Towers so that residents can improve forest cover at their homes even as debate on conserving Mau Forest escalated a few months ago.

MMU ACCLAIMED FOR DONATING 500 SEEDLINGS TOWARDS ENSURING ENVIRONMENTAL SUSTAINABILITY

Maasai Mara University in conjunction with the Rufford Foundation is keen to meet International Standards in ensuring Environmental Sustainability through donating tree seedlings. The School of Tourism and Natural Resource Management and the Department of Forestry and Wildlife Management Quality Objectives for the 2018/2019 Academic Year. The goals requires the duo to participate and engage in at least two community outreach programmes on Environmental Sustainability and Corporate Social Responsibility (CSR). While gracing a ceremony to receive the trees, the Maasai Girls High School Principal Mrs. Rose O. Oteku appreciated the unwavering sheer efforts of Maasai Mara University in championing restoration of environment. The Head of

Department to the Environment Mr. Martin Ringera and the Environmental Club Members were elated to welcome the seedlings promising to nurture them into mature trees. The Head of Department to the Environment Mr. Martin Ringera and the Environmental Club Members were elated to welcome the seedlings promising to nurture them into mature trees.



**MMU(KENYA) AND UWE (UK) SET TO
AUGMENT TEACHING, RESEARCH AND
KNOWLEDGE TRANSFER**

Maasai Mara University has commenced reaping from International Collaborations and Partnerships accruing from outreach efforts

protracted by the University Council chaired by Dr.Samuel Agonda Ochola, and the University Management steered by the Vice-Chancellor Prof.Mary K. Walingo. This was actualized in July, 2019 when the Senior Lecturer, Employability Lead and Research Investigator at University of the West of England (UWE), Dr. Emmanuel Adukwu made a visit to Maasai Mara University so as to pursue and cement collaboration and partnership opportunities. The MMU's Deputy Vice-Chancellor Academic and Student Affairs Prof. Bulitia Godrick Mathews lead the team in identifying prospective areas of collaboration and partnership between MMU and UWE. These areas are Teaching, Research and Knowledge Transfer. Maasai Mara University is hopeful that the collaboration and partnership in the said areas will materialize into deliverables.



VALUABLE INNOVATION

Waste material to valuable products

is a rich source of energy and if embraced as an energy source will be a catalyst of enhancing carbon cycle phenomena of reducing greenhouse gas effect and in extension global warming. Developing technologies of converting this waste material to valuable products could have rendered it into a raw material. This could have catapulted industrial growth, creation of jobs, reduction of diseases and increased wealth to a nation's people, hence improved standard of living. To fast-track this, institutions of higher learning and research centres need to redirect their financials and energies towards this end in order to enhance innovations, inventions. It was under this backdrop that Maasai Mara University created the Centre for Innovation, New and Renewable in order to foster innovations and renewable energy growth on campus. The Centre was established to foster the development of Renewable energy and Innovation platforms within the University. In view of this, the focus is on the growth of new energy technologies, green energy use and innovations development in the University and society at large as a route to conserving the environment, and industrial growth. The Centre is a hub of activity which provides clean energy fuels for domestic and industrial use and in the process of enhancing energy cyclic models in promoting SDGs No. 7, 9 and 13. This is aimed at providing alternatives energy values to charcoal and firewood use. The ripple effect will be a sustainable solution to vegetation restoration and conservation in line with achieving the SDG No. 15, while promoting the Big Four Agenda. Some of the innovative ideas being developed and optimized are as shown below:

Imagine a world without waste and all around you are raw materials for product making. Waste Biomass is the single most waste material which is a menace in public places, urban centres and in institutions world over. There is a clear positive correlation between poverty levels of a country and the volume of biomass wastes she produces, that is, "poor" countries produces higher volumes of biomass wastes than "rich" countries. Disposals of biomass waste costly, labour intensive and risky to handlers especially when it has started to decompose. On the other hand, this material



By Dr. Aloys Mosima Osano

Snr. Lecturer,
Director Centre for innovation,
new & renewable energy,
Maasai Mara University



Biomass carbonizing unit in use, with a 90% biomass to bio char conversion efficiency.



Bio Tar prepared from trash used to make bio char briquettes.



Bio char briquettes.



Grass Char prepared from trash and cut grass used to make bio char briquettes.



COUNTY NEWS

EDUCATION STAKEHOLDERS CALLED TO AID ERADICATE EARLY PREGNANCIES, PREMATURE MARRIAGES AND FEMALE GENITAL MUTILATION

Leaders in Narok County have called on education stakeholders and professionals to help root out early pregnancies and Female Genital Mutilation (FGM) in order to revamp the academic standards in the area. The appeal was made by both the Narok County Governor Hon. Samuel Kuntai Ole Tunai and the Narok County Commissioner George Natembeya during the 55th Jamhuri Day Celebrations held at the Narok Stadium. Speaking during the occasion, Governor Ole Tunai encouraged academic institutions, Maasai Mara University inclusive, to work in unison with the County Government and the National Government towards improving the academic standards of Narok County. Hon. Samuel Ole Tunai has also been recognized by President Uhuru Kenyatta receiving the Elder of Golden Heart feat. He added that the County Government has been instrumental in supporting the needy students that hail from humble background through bursaries and scholarships. This is one treasure that some alumni and students of Maasai Mara University originating from Narok County and beyond are beneficiaries. His sentiments were echoed by the Narok County Commissioner George Natembeya who came out strongly condemning parents and guardians who subject their very young girls to the outlawed Female Genital Mutilation (FGM), at the expense of their education. Natembeya also decried the highest levels of early and teenage pregnancies citing recent statistics that Narok County is leading in the tragedy with 40%. He also warned that he has devised a technique of identifying pupils and students who might undergo the cut secretly during this festive holiday. The parents or guardians found culpable will face the full force of the law. Natembeya has also won gratitude from President Uhuru Kenyatta following exemplary service hence the title the Moran of the Order of the Burning Spear. Maasai Mara University have had good rapport with the office of the Governor and the County Commissioner, working together towards sustainable academic progress in the County. It is at Maasai Mara University where Narok County held academic conferences and meetings geared towards notable advancements of education standards. Besides, MMARAU also has been hosting the National Celebrations like Jamhuri Day, Madaraka Day, Mashujaa day etc. even before the inception of devolution when Narok County Stadium was still under construction.



WORKSHOP & TRAINING

AJIRA Digital Training Week @ Maasai Mara University

The AJIRA Digital Program is a government initiative driven by the Ministry of Information, Communications, and Technology to empower over one million young people to access digital job opportunities. The program seeks to position Kenya as a choice labour destination for multinational companies as well as encourage local companies and the public sector to create digital work. The government digitization projects already create lots of viable microwork that can be completed by digital workers. Access to digital work will build wealth and

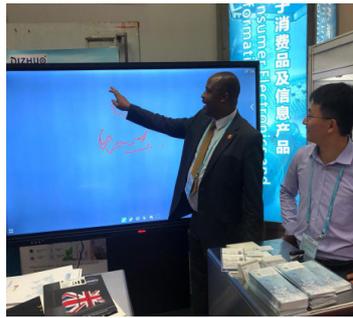


grow the middle class for businesses and direct collaborative learning ap- across the country. A larg- growth of GDP.The main proach to finding digital work; Provide Kenyans with access to digital work, and finally Promote Kenya as a des- tination for online workers.



MMU TO EXPLORE NEW TECHNOLOGY IN TEACHING AND LEARNING

It is the pride and intention of Maasai Mara University to provide ample infrastructure to its clientele hence realize the bountiful acquisition of knowledge. Besides, it strives to equip students with coveted skills in innovation especially in the areas of Science, Technology, Engineering and Mathematics (STEM). Owing to this essence, the Deputy Vice-Chancellor Academic and Students Affairs (DVC (A&SA)) Prof. Bultia Godrick Mathews toured respectable institutions in China that embody efficient and affordable building technologies. According to Prof. Bultia, Maasai Mara University's yearning to advance its lecture room teaching and presentation styles have been warmly welcomed by China.



Among these technologies is the use of portable finger touch interactive whiteboard where one uses his finger to write on the board rather than using whiteboard pens. Computer Science and Information Science students and those pursuing courses that necessitate skills in Information Communication Technologies (ICTs)

will have their knowledge enhanced through collaborations with high-tech universities in China. This will culminate to innovations and creativity in the field of manufacturing, a key component of the Big-Four Agenda; students will interact to exchange ideas in the manufacture of smart phones. This also supports the wake of the new Competency-Based Curriculum being rolled out in the Kenyan education sector where talent, creativity and innovation will be prioritized. Use of robots as messengers in faculties is another green area where delivery of information and services in departments, faculties and different units in the university will be efficient, fast and

free from flaws whatsoever. Moreover, a cheap and affordable means of constructing lecture rooms is evident in China where containers are erected as lecture rooms, offices and even purpose-built academic libraries to suit the needs of a university. This is a technology to be borrowed too. Prof. Bultia also interacted with the Deputy Minister, Republic of Iraq, Ministry of Construction and Housing and Municipalities and Public Works, Istabraq I. Alshouk. He promised to offer professional support and even make arrangements to visit Maasai Mara University to actualize a healthy relationship that will see Korea support the university.



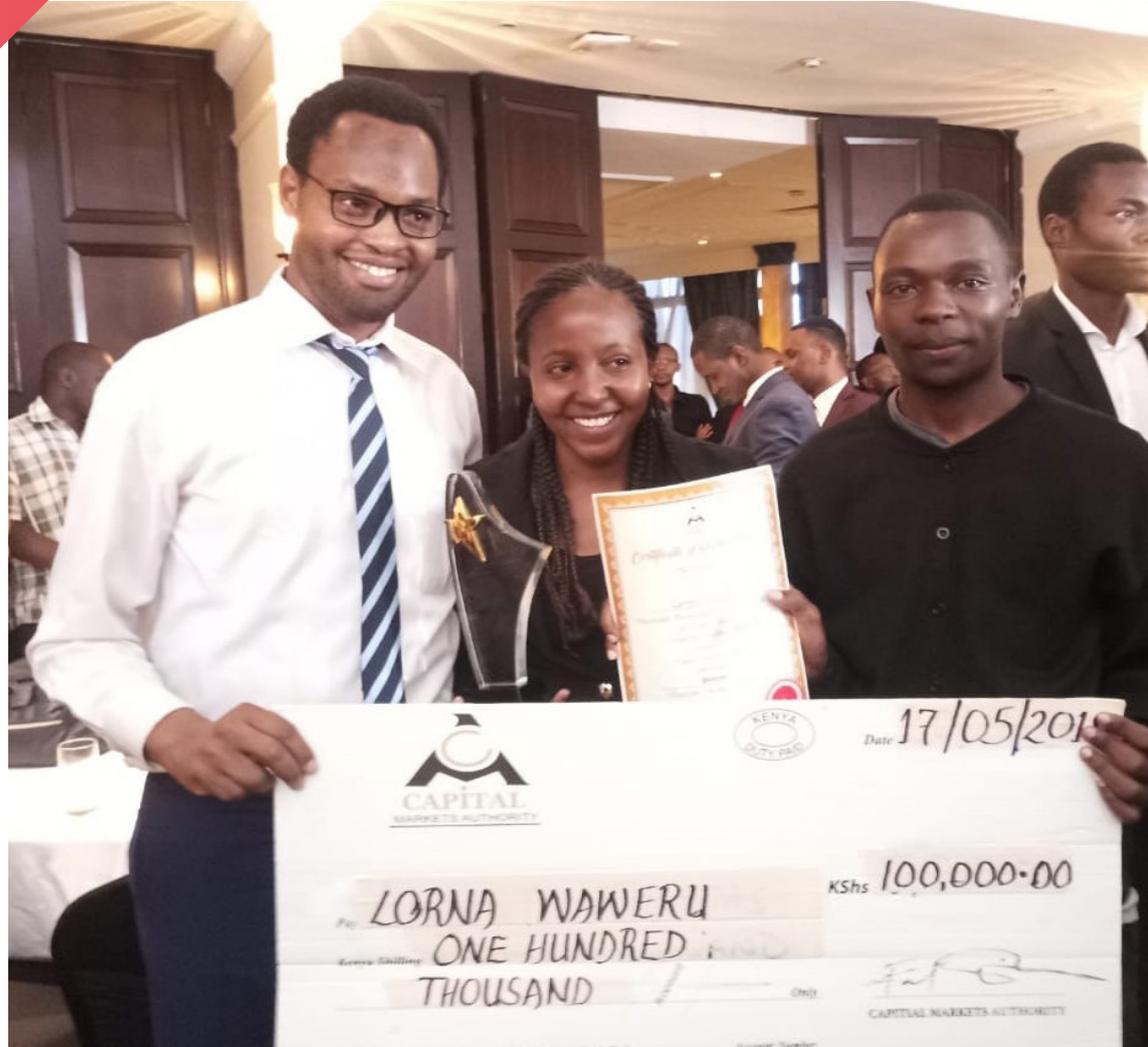
MASAI MARA UNIVERSITY
E-LEARNING CONTENT DEVELOPMENT/MANAGEMENT TRAINING
28 - 31 August 2019 Morendat Institute of Oil & Gas Naivasha

2019.08.30

STUDENT'S ACHIEVEMENT

MAASAI MARA UNIVERSITY STUDENT WINS THE TOP UNIVERSITY CAPITAL MARKETS CHALLENGE

Maasai Mara University's flag has been maintained flying high by Lorna Waweru Wanjiru, a student who stood tests to clinch the First-Runners Up position in this year's National Capital Markets University Challenge. Lorna won a trophy and bagged a cash prize of Ksh. 100,000. The finals took place on Friday, 17th May 2019 in Nairobi, Kenya. Late February this year, Lorna Waweru Wanjiru and Robin Juma qualified for the semi-finals after out-smarting their colleagues during a challenge that took place at Maasai Mara University. The students have been working under the guidance and mentoring by Mr Elkanah Kimeli who is a lecturer in the School of Business and Economics and doubles as an acting Internal Auditor at Maasai Mara University. National Capital Markets University Challenge is an inter-university competition that primarily focuses on testing the participants' knowledge and understanding of capital markets and financial issues.



MAASAI MARA UNIVERSITY WITNESS CS PROF. MAGOHA LAUNCH KUCCPS CAREER GUIDE & RELEASE OF PLACEMENT RESULTS



Maasai Mara University has demonstrated support for the Kenya Universities and Colleges Placement Service (KUCCPS) as the Education Cabinet Secretary, Prof. George Magoha and the Chief Administrative Secretary Prof. Collete Suda launched KUCCPS Career Guide and released 2019 placement results. Maasai Mara University has been recognised as part of the team that engages KUCCPS on pertinent issues especially those linked with varsities in Kenya. Representing the university was the Deputy Vice-Chancellor Administration, Finance and Planning, the Deputy Registrar Academic Affairs and the Corporate Affairs Officer.

EDUCATIONAL TECHNOLOGY

Facebook Moves To Decide What Is Real News

Facebook is rolling out a major change to its News Feed: pushing up news articles that come from "high quality" sources, and pushing down the others. The move signals that, in an effort to combat the problem of fake news, the social media giant is willing to play a kind of editorial role – making decisions based on substance, not just how viral a headline may be.

CEO Mark Zuckerberg said in a post to his Facebook page:

"There's too much sensationalism, misinformation and polarization in the world today. Social media enables people to spread information faster than ever before, and if we don't specifically tackle these problems, then we end up amplifying them. That's why it's important that News Feed promotes high quality news that helps build a sense of common ground." The company asserts that its own executives will not pick and choose favorites. Rather, they'll let the users decide what counts as a trusted source. Spokesman Todd Breasseale says in an email: "As part of our ongoing quality surveys, we asked a diverse and representative sample of Facebook users across the US to gauge their familiarity with, and trust in, sources of news. A source's broad trust is one of many signals that determine stories' ranking in News Feed. We boost links from sources with high trust scores and demote links from sources with low trust scores." Facebook recently announced other reforms that, the company estimates, will result in less news in the News Feed overall – from the current 5 percent down to an estimated 4 percent.

The Adverse Effects of Technology in the Workplace

There's no question that technology has radically changed the way companies do business, extend their influence in the global marketplace and improve the quality and efficiency of their day-to-day operations. The price of progress, however, is not without its downside, particularly the higher value that is sometimes placed on impersonal Internet communications rather than human interactions.

Job Elimination and Displacement of Workers:

The technological advancements of recent decades have much in common with the effects of the Industrial Revolution in the latter part of the 18th century. Specifically, both movements accelerated the displacement of workers by machines that could perform tasks faster, more accurately and 24/7. While technology enables business owners to reduce overhead by downsizing their workforce, individuals whose skill sets are now obsolete have limited options for employment if their current jobs are eliminated.

Electronic Leash and Constant Availability:

In earlier generations, you could leave the office at 5 and not have to think about it again until the next morning, nor were you expected to take phone calls or respond to requests if you were sick or on vacation. Thanks to email, cell phones and pagers, the length of the average workday has summarily increased along with your accessibility by workers and clients. This blurs the line between work life and home life, and may contribute to your stress level.

Surveillance and Privacy Rights:

Surveillance equipment, key cards, and the increased monitoring of phone and Internet use in the workplace continue to raise issues of employee privacy. This generates the need for personnel policies that justify the omnipresent watchfulness of management, as well as methodologies to monitor and enforce those policies. While such measures strive to ensure that time and resources are used appropriately, employees may interpret these safeguards as distrust, or feel that everything they do is being watched.

Data Security and the Threat of Hacking:

The shift to paperless offices leaves companies vulnerable on two major fronts. The first is that if there is a power outage, electronic data can't be retrieved unless backup files at an offsite location are accessible. Secondly, any type of electronic platform is subject to the threat of computer viruses and hacking. These can compromise vital records, databases and client confidentiality.

Communications and Greater Impatience:

While email enables users to interact with clients on the other side of the globe, it has also diminished some of the trust and rapport that previously evolved from face-to-face meetings and phone conversations. Even within the same office, workers are often more inclined to chat electronically rather than physically walk to a cubicle or congregate at the water-cooler. Technology has further increased impatience to get results. Where employees or consumers once might have waited three weeks for a letter to answer their concerns, an email or text request that goes unanswered for 10 minutes now can create agitation. Last but not least is the reality of information overload stemming from workers who feel the need to "cc" or forward anything they believe could be remotely interesting to everyone they know.

Internet of Things By Anil Kumar



What is eLearning?

Understanding eLearning is simple. eLearning is learning utilizing electronic technologies to access educational curriculum outside of a traditional classroom. In most cases, it refers to a course, program or degree delivered completely online.

Blockchain technology

Blockchain is going to bring the first enterprise applications in active use. The most innovative corporations will start using Blockchain as a way to improve collaboration. Blockchain in 2019 comes out cryptocurrency transaction and becomes an integral part of the business platform. Blockchain enables transactional transparency across a variety of business functions. In 2019, Blockchain will be present in many industries at the core of business innovation.

Cyber Security

Cyber security might not seem like emerging technology, given that it has been around for a while, but it is evolving just as other technologies are. That's in part because threats are constantly new. The malevolent hackers who are trying to illegally access data are not going to give up any time soon, and they will continue to find ways to get through even the toughest security measures. It's also in part because new technology is being adapted to enhance security. Three of those advancements are hardware authentication, cloud technology, and deep learning, according to one expert. Another adds data loss prevention and behavioral analytics to the list. As long as we have hackers, we will have cyber security as an emerging technology because it will constantly evolve to defend against those hackers.

“Poetry is a tool for disruption and creation and is necessary for generations of humans to know who they are and who they are becoming in the wave map of history.”

A SMILE

by Author Unknown

Smiling is infectious,
You catch it like the flu,
When someone smiled at me today,
I started smiling too.

I passed around the corner,
And someone saw my grin,
When he smiled I realized,
I'd passed it on to him.

I thought about that smile,
Then realized its worth,
A single smile, just like mine,
Could travel round the earth.

So, if you feel a smile begin,
Don't leave it undetected.
Let's start an epidemic quick,
And get the world infected.

SEND A DROP OF KINDNESS

by Julie Hebert

Send a drop of kindness,
And see a happy face.
A drop of kindness goes real far,
It may even reach outer space.

Send a drop of love,
And feel a loving embrace.
It feels so good to feel like,
You are in the right place.

Send a drop of hope,
But be that shining star.
Hope is wonderful to have,
But sometimes you can't sit away so far.

Send a drop of faith,
With a single prayer.
And God will show the way,
As faith is always there.

WISHING

by Ella Wheeler Wilcox

Do you wish the world were better?
Let me tell you what to do.
Set a watch upon your actions,
Keep them always straight and true.
Rid your mind of selfish motives,
Let your thoughts be clean and high.
You can make a little Eden
Of the sphere you occupy.

Do you wish the world were wiser?
Well, suppose you make a start,
By accumulating wisdom
In the scrapbook of your heart;
Do not waste one page on folly;
Live to learn, and learn to live.
If you want to give men knowledge
You must get it, ere you give.

Do you wish the world were happy?
Then remember day by day
Just to scatter seeds of kindness
As you pass along the way,
For the pleasures of the many
May be oftentimes traced to one.
As the hand that plants an acorn
Shelters armies from the sun.

MAKING LIFE WORTH WHILE

by George Eliot

Every soul that touches yours -
Be it the slightest contact -
Get there from some good;
Some little grace; one kindly thought;
One aspiration yet unfelt;
One bit of courage
For the darkening sky;
One gleam of faith
To brave the thickening ills of life;
One glimpse of brighter skies -
To make this life worthwhile
And heaven a surer heritage.

YOUR MISSION

by Ellen M.H. Gates

If you cannot on the ocean
Sail among the swiftest fleet,
Rocking on the highest billows,
Laughing at the storms you meet;
You can stand among the sailors,
Anchored yet within the bay,
You can lend a hand to help them
As they launch their boats away.

If you are too weak to journey
Up the mountain, steep and high,
You can stand within the valley
While the multitudes go by;
You can chant in happy measure
As they slowly pass along--
Though they may forget the singer,
They will not forget the song.

If you cannot in the harvest
Garner up the richest sheaves,
Many a grain, both ripe and golden,
Oft the careless reaper leaves;
Go and glean among the briars
Growing rank against the wall,
For it may be that their shadow
Hides the heaviest grain of all.

If you cannot in the conflict
Prove yourself a soldier true;
If, where fire and smoke are thickest,
There's no work for you to do;
When the battle field is silent,
You can go with careful tread;
You can bear away the wounded,
You can cover up the dead.

Do not then stand idly waiting
For some greater work to do;
Fortune is a lazy goddess,
She will never come to you;
Go and toil in any vineyard,
Do not fear to do and dare.
If you want a field of labor
You can find it anywhere.

STUDENT'S ARTICLES



By Lucy Mwelu
lucymwelu15@gmail.com

RISING ABOVE

Time waits for no man is a popular mantra often handed down to students by their instructors. Personally, I think our minds have been limited by this particular saying in the sense that we, students, now feel that we never have time to do anything. I find it quite strange that even after establishing that we never have ample time to execute our own agendas, most of us when asked cannot quite account for this 'limited time'. Separating chaff from rice is a specialty we learn at a young age. In this case, the rice happens to be the chosen few who have gotten the knack of manipulating time to fit their activities. I have met students who juggle education, work and their social life without breaking a sweat! I know what you are thinking; yes, I concur they deserve to be regarded as our local justice league. Fear not though, you can also be a part of this superhero set up. Here is how;

Wake up with a schedule in mind and actually see it through; Most of us like to go with the flow with our day to day activities in a feeble attempt of attaining 'gangster points'. More often than not, this will result in you losing a substantial amount of time, time you could have used productively. Say no to procrastination: We all make plans, elaborate ones and jolt on little sticky notes and place them on our walls. How many of these do we actually accomplish? Avoid pushing activities, do them at the scheduled time. Acknowledge there are 24 hours in one day: A friend of mine told me that "no human is limited". Of course, I later found out she poached it from the exceptional athlete, Eliud Kipchoge. I came to actually synthesize this phrase when I saw a student who only slept for four hours. Not because he was out making merry in the party after party context but because he was an online writer and work mostly presented itself at the dead of night. I am shocked to say that there are no bags under his eyes or worry lines on his forehead; he has mastered time management and so can you. Rise above, there is more in you than you presume. Stop saying "I have no time," you actually do!



BY Lauren Achieng.

FEMALE GENITAL MUTILATION (FGM)

Female genital mutilation or cutting are all procedures involving partial or total removal of the external female genital organs for non-medical reasons. FGM is a violation of human rights and constitutes an extreme form of violence. It normally affects the victims, emotionally, socially, physically and also health wise, from a study conducted by UNICEF, it was estimated that at least 200 million girls and women alive today have been through circumcision in 30 countries in Africa, the middle East and Asia. According to a study called the Kenya Demographic Health Survey (KDHS) conducted in Kenya in the year 2014, 21 girls and women out of every 100 aged 15-49 reported having undergone FGM. There is a steady reduction in the practice in Kenya. FGM has no health benefit, it harms girls and women in many ways since it involves removing and damaging of healthy and normal female organs, and interferes with the natural function of girls' and women's bodies. Oftenly, immediate complications always arise, they include;

1. Severe pain and swelling
2. Due to the cut and open wound it causes excessive bleeding.
3. It causes pain when urinating and encourages infections.
4. Cutting tools are normally shared this causes a high risk of HIV infection.

5. It causes complications during child birth and this can lead to death.
6. Affects girls and women emotionally and also physically. To add to this there are various reasons why FGM is practiced, in some communities in Kenya. Most of these communities have given up reasons as to why they practice this procedure, but we find that most of these reasons are false, there is no reason for practicing FGM since it has no known health benefit. Some of the common reasons include; belief that only girls or women who have undergone FGM are ready for marriage, to be accepted by family, friends and the community members one has to be circumcised, belief that religion requires them to undergo FGM to show that they are clean, belief that FGM makes girls and women more clean and attractive to men and lastly, belief that FGM will ensure that the girl does not have premarital sex. FGM in some Kenyan communities are performed by traditional circumcisers, they are usually old women living in these communities. Removal of flesh from the female genital area is the most common form of circumcision. Traditional circumcisers normally use blunt tools such as a razor blade and knife during cutting, horns to enlarge the vaginal opening, ropes to tie the girls undergoing the procedure. Herbal medicine and, depending on the community, tea leaves and breastmilk are used to reduce the pain during and after cutting, others use modern medicine like Panadol for pain, a tetanus injection to prevent infections and antibiotics such as Amoxil for healing the wound. In conclusion, we now understand that FGM is totally a wrong form of passage in life, because those affected have emotional, psychological and physical torture. Many people in Kenya are aware that FGM is wrong, but they still do it, we should therefore create more awareness that FGM really kills and affects girls and women. Anybody caught performing the procedure or forcing women to it should be arrested and forced to face the law, this includes even the village elders in the affected communities, there should be more rescue centres for girls who have ran away from their communities, because of FGM.

LADIES THIS IS HOW YOU WIN THE RELATIONSHIP GAME



By Elsie Muturi

Student- Maasai Mara University

It never ceases to amaze me how much people talk about relationships, think about them, read about them, ask about them, and even get in them without a clue on how to move them forward. Have you ever wondered why some women can get men to treat them well, while other women struggle with their relationships? Well, some women know exactly what they're doing; they use simple techniques that all women possess, and I call these techniques "powers" because they allow us to have great power over men. The game is about to change, so get ready for some FUN! And when it's all over, you'll feel refreshed, empowered, and excited about dating and being a woman. Now let's BEGIN. How do you Tell If this Guy Likes You.....

Ladies If a guy likes you, he will eventually begin to pursue you. If he doesn't, then he doesn't like you. No excuses!! Besides, it's much simpler if you found this out without the embarrassment of rejection. Too many of us sit around by the phone waiting for a guy to call back or ask us out on another date, only to get let down when he doesn't. We make excuses for him, get our feelings hurt, and even worse; we blame ourselves. Here are three reasons why you must control your emotions when meeting a new guy or at the beginning of your relationship:

Reason #1:

Men hate it when they can't see into your head. If you control your emotions for a new guy, you're making him wonder if you like him or not.

When he can't figure it out, he'll work harder.

Reason #2:

Men only want you when you don't want them. It's all about the thrill of the hunt for a man.

Reason #3:

Only FOOLS rush in! As women, we get swept off our feet too easily.

Don't be so quick to like a new guy, especially one you just met or just started dating. Slow down. Control yourself and play THE GAME.

Are you that SPECIAL Girl?

LADIES, if a man likes, he will do anything just for you; this is what men do naturally. We are the nurturers, and they are the protectors. Men are our knights in shining armor, but they'll only do it for one special girl. So... Give him The PRINCE CHARMING Test

This test is all about observing your man's actions. Actions speak louder than words, so you want to find out what his actions say about his feelings towards you. If he is easily willing to come to your aid consistently, this is proof he genuinely cares for you.

Step 1) Put yourself into a position where you would want a potential mate to be there for you.

This is very important. You don't want to get involved with a man that isn't willing to be your Prince Charming. Let's see if he can pass the test

Step 2) Observe. How does he handle a situation? Does he offer to help? Does he sound concerned? Does he run to your rescue? Does he tell you he has to go and can't help right now? Does he ask you to call someone else instead?

Bottom line: Is he coming to your rescue? When a man likes a woman a lot, he will want to rush to her side to be the man that solves her problems.

Once these two tests have been passed, then you know it's probably safe to allow him access to your precious asset, but only if you want to! Don't give in to sexual pressure to keep him! Now let's have "the COOKIE talk."

Why Make a Man WAIT?

Patience is a virtue very few men possess these days. So, when you find a man who's willing to wait, he is a keeper. It's FUN to watch men

jump through hoops to try to get you. More importantly, it puts the power in your hands. By not giving up the COOKIE, you're the one in control! And nothing beats being in CONTROL

Confidence is the new Sexy

Nothing can make a person more attractive than sheer confidence.

Knowing who they are and embracing it! Being sure about who you are and never backing down from it. Confidence has nothing to do with your looks or body. It has everything to do with being you and not apologizing for

it. It helps you deal with the insecure man whose main goal is to make you feel so bad about yourself that you eventually believe no other man will want you. This guy is using your emotions and a lack of confidence against you. He's not saying these nasty things because they're true. If they were true, why would he be with you?! He's saying these mean things as a way to keep you down because if he keeps you down, he keeps you around! So open your eyes and....

Date with Balance

Now we need to talk seriously for a minute. Some of you aren't going to like this part coming up because I'm going to be perfectly honest. I'm probably going to hurt someone's feelings. I don't care. Some of you need to hear this! Let's talk about standards. Some of you have your standards too high, and some of you have your standards too low. You only need to have standards that act as your armor to keep yourself safe.

The standards you came up with on your list are there to protect you from getting involved with bad men and not getting obsessed over them enough to overlook how badly you are treated.

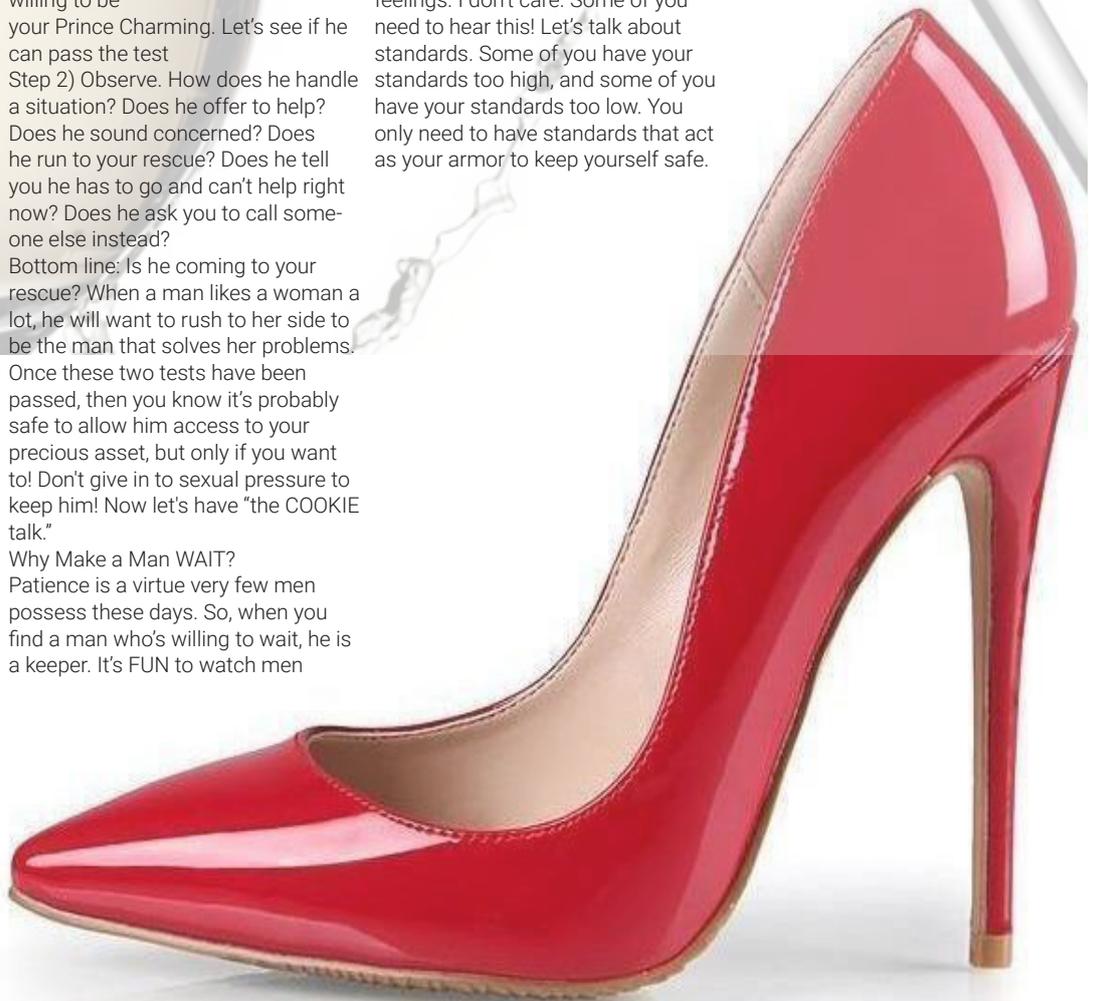
"The #1 thing that turns me on in a man is the way he treats me."

Once you know how you deserve to be treated, you believe in yourself, and he'll believe you. If he believes you, he'll know he has to be a good man and treat you right if he wants to be with you. So don't you ever lower those standards. MEN RESPECT STANDARDS GET SOME!

Lastly...

Wise Women Have Backup Plans

Now, don't even begin to get stupid because you're in love. You can let your emotions out now that you're in love, but you still need to be on point. If this great guy suddenly starts being not so great, don't hesitate to cut him off! You need to be prepared to get up and leave him at ANY TIME. This means you always have a backup plan. And after all, is said and done, you become a badass with a good heart, soft but strong, unapologetic and honest. The kind of woman any man would love to go to war beside, THE TYPE OF WOMAN ITS AN HONOUR TO MARRY.





BY Mike Yambo

I LOST MY BABY AND TRUST IN MEN.

"My name is Elsa*, I joined campus oblivious of its realities, never before had my parents talked to me about life in university. My father, however, was so proud I became his first child and daughter who made it to campus. Despite getting a lot of advances from men, I didn't want to be in a committed relationship in first semester as a freshman. I still struggled to figure things out. Before coming to university, I heard most people say that campus is where most people found their potential lovers, there is a lot of freedom and life is all fun. All that brought confusion to me. I didn't want to be perfect, but at least real to myself. My life was in perfect check and at most times enjoyed the tranquility of sitting alone, I even never went to clubs with my peers. I thought I was ready for a relationship at second semester, when I knew this man through the myriad telephone conversations we had before meeting him in person. He was good looking, a kind man typical of almost every lady's desire. He was in his third year and he treated me like a gentleman during our first month of dating. The first time he invited me to his house for a sleepover, I was so nervous because I had never spent a night in the arms of a strange man in the same bed. Gradually I discovered certain habits about my lover, he was addicted to meth and marijuana. Whenever I asked about it he became furious. Once, he told me that we rather part ways than be in a relationship with a person who controls how he lives or changes who he is. His addiction became so open to me so much that he would forego his basic needs for the sake of drugs. So I kept convincing myself with hopes that maybe he would change the habit with time. I nurtured our relationship with so much love and attention. It came a point, however, when I let his drug menace slip off since I could do so little to stop it. However, he treated me like a princess, and I was completely smitten by every goofy thing he said and did, until at some point during recess just after completing my freshman year. I realized very strange changes occurred to my body; I skipped the monthly period. I informed my homey about it and her immediate question to me was 'what will you do if it turns out you are pregnant?'

I carried out a series of pregnancy tests and the first test brought shock, the second disbelief. Reality began settling with the third test as my worst fear came true, I was expecting. It wasn't what I anticipated by any means.

The next day I placed a call to my boyfriend to inform him about the pregnancy. He obscenely asked 'so what do you want to do?' Although I confidently told him that I intended to keep the baby, I kept asking myself a lot of hard questions with regards to whether I should keep or eliminate it. There was no one to call, no one to trust to run to for an advice, no friend to hear my sorry tale except my homey, she knew my deep secrets ever since we were young.

My lover recommended me to eliminate the pregnancy, he was even ready to send the money to secure an abortion. He claimed that the sight of me walking around campus with a big belly would embarrass him. With time he became harsh and even sent threatening text messages. "Do you know that if you give birth to that child you are going to interfere with my education?" he would say. He even warned me not to get closer to him with a pregnancy, but despite his threats I vowed to keep my child safe.

It became so hard taking in these words from a person I loved. I became so upset and even thought he would do something to kill me and the kid. I sometimes asked him why he wanted me to risk my life but he kept telling me "I'm not ready to be a father and if you want to keep it, it's on you and I won't be responsible." My world cracked and crumbled, I didn't know what to do or who to turn to. I didn't want to turn to either my mum or dad because I felt that I had betrayed and disappointed them. My friends advised me to keep the pregnancy. Nonetheless, I kept asking myself how I would survive in campus with all the attitude from friends who knew me. Besides, how would I raise a child without its father? I found more questions than answers each day as my brain was chocked with so many thoughts. At only 18 years I felt I had lost so much and fallen so far, it took me two weeks of soul searching and dilemma until I gave in and asked my lover for money to secure an abortion.

Through the help of a friend I acquired abortion pills. I wanted a quiet night alone in my room where the world was held at bay. However, That night I could not stop myself from crying for hours and hours on end, I was being eaten up by what I was about to do and from inside, I kept telling my baby that it wasn't my intention to kill it. I had been pushed to the wall, and all I wished for it was a better life than living in denial from its father.

I was also ready to take death as a result of the abortion because I felt that I was committing murder on an innocent soul. I was told the pills would create an impact in five hours but the pain and bleeding didn't stop until a week later.

For a year, the time between bed and sleep was the worst of the day. The past came back with vengeance. The mistakes, the misery the could-haves and should haves. As much as I tried, I could not simply close my eyes and go to sleep at the thought of losing my baby.

I'm trying to get over my grieving, though not ready to love again. My boyfriend cut our links after he sent me the money for abortion, I vainly reached him on phone and social media as well. The situation seriously impaired my ability to have trust in men and the thought of killing my baby haunts me. I still feel like a part of me is missing.

Sometimes whenever I see a baby, I can't help crying. I love children so much that I keep asking myself, why didn't I raise my own?"

"This was a confession of a student at Maasai Mara University. She didn't wish to reveal her true identity, but only share her life experience."

Social Media Hacking and Social Engineering



By Danstan Akwiri

Student- B.Sc. Computer Science

Social engineering is the art of exploiting human flaws to achieve a malicious objective or purpose. Over a couple of years, there has been an emergence of a new paradigm in the internet and online social media networking, which allows users on the internet to communicate with their families, friends, and acquaintances through the use of social media tools.

It is becoming significant that all users, not just the technical guys, to be aware of safe cyber practices. The need to use social media is becoming more prevalent globally, with individuals from countries of varying economic development, progressively accessing the internet to participate in online business. However, they can also present serious cybersecurity threats.

Nowadays it is so easy to gather information about someone or even an organization by looking at their social media handles, posts, followers, or following, the data harvested can be used to target the individuals or the organization maliciously.

Scenario 1:
Mary is a student; she has her university's email i.e., mary123@abc.ac.ke, she posts about her, friends and photo-shoots almost every weekend on her Facebook or Twitter handle, her mutual friends are let's say, John and Wendy. Most likely, all her mutual friends or one of them would be from the same school having the same email. Using the information, I have gathered from her social media, I can conclude that Mary is a social lady, so therefore if I want to create a dictionary attack to brute force her social media passwords, my terms and words could be within "social-life."

I can also be able to send her fake emails. Mail spoofing, in the name of John and Wendy, with pictures embedded with

scripts, as soon as she clicks the image then it creates a backdoor connection from her device remotely, be it phone or computer to device to my machine, this is called Reverse TCP/IP Engineering, the image can also be embedded with script to change her passwords immediately she clicks on the picture, making the hacker take full control of her accounts, same as it might be a hacker can trick Mary's phone into getting updates of Applications on her device, which when downloaded an exploit has been packaged with the original App that will create a connection to the hackers machine, Once in control, a hacker can make calls, send SMS, eavesdrop calls, take videos or pictures and even screenshots of your phone among other activities. See, you and I just hacked Mary.

Scenario 2.

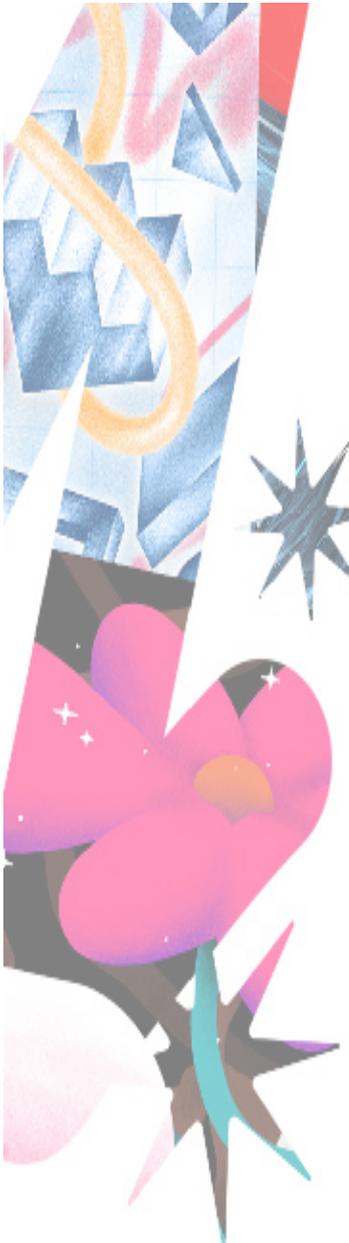
I can use an official app, IG, WhatsApp, TickTok or even Facebook, repackage the App with my exploit that will reverse engineer the connection an open a port on my device, send it to my target using Xender or Bluetooth, or whichever the way, which will give me full access and control of my targets device.

Scenario 3.

The term cloning means getting a copy of the original or a duplicate. Well in this scenario let's talk about cloning facebook.com/login URL to let's say 41.89.105.17/login, if I send this number URL to my target, it will show a login Facebook page with fields: username and password, which if the target fills, it harvests the credentials and redirects the user to the genuine Facebook page, just by doing that I'll have my target's Facebook Login credentials.

In Conclusion

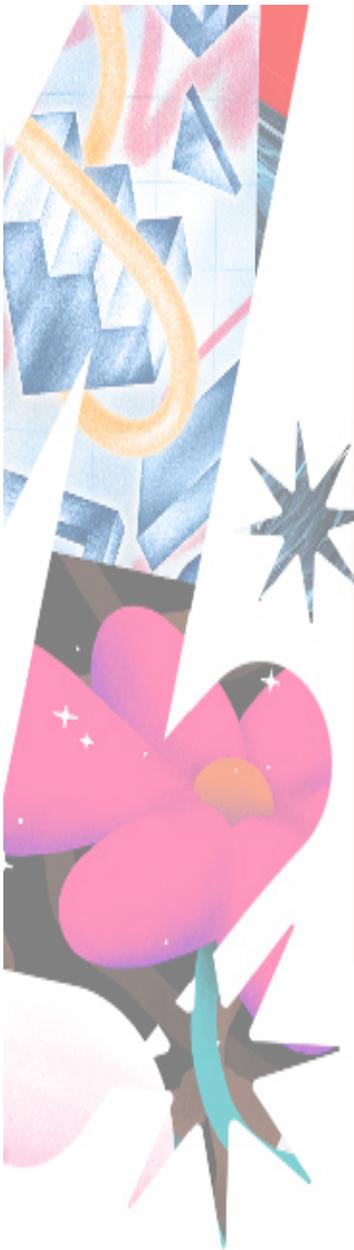
Although Mobile, computer and internet companies, are trying as hard as possible to ensure privacy and security on their devices, it is your responsibility to ensure that you follow the guidelines and principles that have been put in place, example, DON'T root your phone, download updates and Apps only from official websites and store(s), only install verified Apps, and last but not least scan emails before downloading them. When accessing websites or Links, it is safe to browse links that contain SSL certificates (just before the link on the URL tab you will notice a locked padlock, which when you click it will prompt, connection secure), Make sure to Logout in all the devices you use and are not personal. It is also advisable to use strong passwords, containing mixed small and capital letters, numbers, and special characters. When you don't follow any guidelines and measures put in place, you risk yourself being hacked.



Higher Education: Re-evaluating Cyber Security



by George Kamweru
B.Sc. Computer Science
Alumni and Staff of Maasai
Mara University



Cyber security has emerged as a growing challenge in colleges and universities. That's because the higher education field has a degree of openness and transparency that allows for data access anywhere, anytime to help advance the learning mission. Universities and colleges are at high risk of such threats because they typically have open, permissive, and highly distributed IT systems. These systems have very large numbers of users and deal with very valuable and sensitive information.

The rising threat of cyber security attacks
Cyber security is one of the major business risks to organizations, not least because cyber crime is ubiquitous and growing rapidly. This is a very serious, highly technical and rapidly evolving topic and the ever-changing digital landscape further complicates cyber security on campus.
Cyberattackers use cutting edge technologies and methods to exploit university systems that are, in some cases, woefully outdated and outmatched.

Data Breaches
Over the course of the past 18 months, some of the biggest, most widespread, data breaches in the history of the Internet have hit the headlines. These breaches are happening more and more frequently.

A data breach of a university's network can compromise the personal information of faculty, staff, students and alumni. Such a data breach would mean that the college's computer network has to be disconnected from the Internet and a large-scale operation to securely recover all systems initiated. Defending networks in general is a difficult challenge.

The top risks for educational institutions include phishing, harassment, ransomware, IP theft (piracy), account hacking, credit card fraud and denial of service attacks. How many senior leaders know what these are and what risks each poses to their organization?

Universities are unique because they tend to have computer networks equal to major corporations, but with fewer privacy protections. Colleges are starting to realize that cyber-attacks have

tangible consequences, and both individuals and institutions need to be more vigilant. By protecting their data, they are protecting their own research. They are protecting their own reputation.

How to Prevent Attacks
Preventing and protecting against cyber-attacks is both time consuming, expensive and is also a continuous effort. There is need for having a digital policy or updating the existing one, training, auditing, insurance and general awareness across the organization. In general, an organization can take actions such as:

- Staff can undertake information security training
- Install additional security software
- Increase the level of password protection
- Undertake penetration testing
- Acquire specific cybercrime insurance cover
- Move all at-risk IT systems under central control

There are several steps colleges and universities should take to ensure that all end users stay vigilant:

Email filters: As an initial, simple step, colleges and universities should set up email filters that sends suspicious non-university emails to a user's spam folder. While this is far from a fool-proof fix, it is an important first step that can prevent malicious emails from reaching their targets.

Training and Awareness Campaigns: Colleges and Universities should require end users to go through training that covers what phishing is and how to recognize it. There are companies dedicated to providing this service, and institutions of higher learning must be willing to invest the time and resources necessary to properly educate their faculties and staffs.

In summary, it is clear that cyber security is a critical business risk for universities and colleges, so it is vitally important that senior executive teams and governing bodies have a grasp of its significance and take appropriate actions to avoid becoming a victim.

References(Scan with QR code reader)



FACULTY'S ARTICLES

Role of research in Universities and National Development



By Dr. Paul W Webala

Snr. Lecturer
Department of Forestry and
Wildlife Management,
Maasai Mara University

“support is necessary to attract the best research staff and graduate students and to provide the infrastructure necessary for top research (and teaching).”

One of the core missions of universities historically and in the modern world is research production and training students to engage in research. University research has indeed contributed to some of the world's most famous discoveries, including the origination of the internet, invention of the telegraph, the discovery of AIDS, and current advances in stem cell research. Universities are or should be the hub of knowledge and discovery. Research can and should play a central role in the creation and dissemination of knowledge, in a range of disciplines and fields, and featuring the appropriate laboratories, libraries, and other infrastructures that permit teaching and research at the highest possible level. In fact, synergy of research and teaching in university education is a hallmark. Unlike other non-academic research institutions, research and teaching in universities are intertwined and complement each other. But for this to happen, internal sources of funding (from universities themselves and the government) for research are imperative. Additionally, realistic teaching and administrative arrangements need to be organized and implemented to allow for space and time for staff to undertake research. Essentially a university lacking a fully-fledged research division that is adequately resourced and appropriately supported, with well-qualified academics, is engaged in mere teaching, and lacks reciprocal benefits that invariably accrue from research. Research can potentially generate significant income. For instance, students may be willing to pay higher fees because of the prestige attached to a degree from them, quality academic programmes and access to top professors. Research can also generate intellectual property and discoveries and innovations with value in the marketplace. In the United States, top-class research can generate philanthropic gifts. Today, research is carried out in collaboration with funding and sponsorship from non-university sources. However, the role of government in funding research cannot be gainsaid. For research to flourish, certain basic but indispensable ingredients are needed. These include subscriptions to journals, communications and networks, libraries, conferences, knowledge repositories, and the internet. Besides, support is necessary to attract the best research staff and graduate students and to provide the infrastructure necessary for top research (and teaching). Adequate salaries for faculty, well-equipped libraries and laboratories, and scholarships for bright but needy students are examples of the expenditures required. Universities that must be involved in research and compete internationally must therefore have adequate and sustained budgets. They cannot succeed on the basis of inadequate funding or severe budgetary fluctuation over time. Around the world, many countries recognize that research is key to the knowledge economy of the 21st century. It can be argued that there cannot be national development without research, both at basic and applied levels. Excellence in research and doctoral education can help countries such as Kenya to compete, prosper, and achieve national goals for health, energy, the environment, and security in the global community of the 21st century. As a developing country, Kenya should seek to compete in the global knowledge economy and to do that university research should be placed among its top policy agendas. It is, therefore, critical that local universities are given adequate support to enable them to partake in the global knowledge economy at the same level as other universities.

Learning Types



by Anil Kumar

Snr. Lecturer-Computer Science, Web Manager, System Administrator and Information Security Management Leader

Acquisition

Learning through acquisition is what learners are doing when they are listening to a lecture or podcast, reading from books or websites, and watching demos

Production

Learning through production is the way the teacher motivates the learner to consolidate what they have learned by articulating their current conceptual understanding and how they used it in practice.

Collaboration

Learning through collaboration embraces mainly discussion, practice, and production. Building on investigations and acquisition it is about taking part in the process of knowledge building itself.

Practice

Learning through practice enables the learner to adapt their actions to the task goal, and use the feedback to improve their next action. Feedback may come from self-reflection, from peers, from the teacher, or from the activity itself, if it shows them how to improve the result of their action in relation to the goal.

Investigation

Learning through investigation guides the learner to explore, compare and critique the texts, documents and resources that reflect the concepts and ideas being taught.

Discussion

Learning through discussion requires the learner to articulate their ideas and questions, and to challenge and respond to the ideas and questions from the teacher, and/or from their peers.

Tourism and Industrial Revolutions



by Dr. Erick V.O. Fwya

Snr. Lecturer, Dean of School of Tourism & Hospitality Management, Maasai Mara University

“According to UNWTO, international tourist arrivals worldwide are expected to reach 1.8 billion by 2030.”

History reveals that human beings have continually improved industry by not only depending on technical evolution but also by reinventing it every time new resources presented novel technical means. Consequently, industry has benefited from qualitative developments which have sometimes been imbedded in certain time periods and have had such overwhelming impact that have been dubbed “revolutions”. The First Industrial Revolution started in Britain in the final quarter of the 18th century and witnessed the replacement of agriculture with industry as the foundation of the economic structure of society. During this time tourism was limited to the elite. The Second Industrial Revolution began nearly a century after the first and peaked at the beginning of the 20th century giving us electricity and assembly line. During this industrial revolution, steel replaced iron. Steel made easier the construction of rail lines at competitive costs, ships, larger bridges and skyscrapers. The Second Industrial Revolution gave birth to transportation as we know it today with its attendant benefits to tourism industry. This period also resulted in a rapid growth in well-educated middle class, as well as an increase of leisure time and a demand for holiday and health tourism. However, it encouraged the materialistic culture that is now our biggest setback in the battle against global warming and climate change. The Third Industrial Revolution, beginning in 1970, marked the shift from mechanical

and analogue electronic technology to the digital electronics. This revolution began the automation of production processes with informatization based on computers and the Internet. This period triggered or exacerbated a number of events including the Great Recession from 2008, the Arab Spring and ISIS digital army. Conceptualized as an upgrade on its predecessor, the Fourth Industrial Revolution, commonly referred to as Industry 4.0 or 4 IR is characterized by a confluence of technologies spanning the physical, digital and biological worlds. In other words, Industry 4.0 is based on megatrends of the following technological drivers: physical (autonomous vehicles, 3D printing, advanced robotics, new materials); digital (internet of things, block chains technologies, technology-based platforms) and biological (genetics). The ubiquitous influence of the combination of these drivers have been felt by all industries, their related distribution and consumption. Industry 4.0 enables the creating of new business models and absolute customization of products and services. Customization of services is particularly significant in tourism since personalized service, supply chain efficiency, agility, smart working environment, big data usage for an up-to-date customer and service information, as well as digital enhancement, have impact on customer’s satisfaction, hence attaining their loyalty and their perceived service quality. Over the past half a century, tourism

has experienced continued expansion and became one of the largest and fastest-growing industries in the world. According to UNWTO, international tourist arrivals worldwide are expected to reach 1.8 billion by 2030. Accordingly, heterogeneous businesses in the field of tourism (e.g. tour operators, travel agents, transfer companies, hotels, restaurants etc.) are offered tremendous opportunities for development. However, their future will be heavily impacted by social, economic, political, environmental and technological changes and challenges. There are three things about Industry 4.0 that can carve out as a new phase rather than an extension of the third revolution: velocity, scope, and systems impact. The rate of change is disrupting almost every industry including tourism in every country, and it heralds the transformation of entire systems of production, management, and governance.

ACADEMIC PROGRAMMES

PRIVATELY SPONSORED

Applications are invited from suitably qualified candidates for admission into the following programmes offered at the Maasai Mara University.

SCHOOL OF ARTS & SOCIAL SCIENCES

- Ph.D Programmes**
- Ph.D in Kiswahili
 - Ph.D in Linguistics

- Masters Degree Programmes**
- Master of Arts in Kiswahili
 - Master of Arts in Public Policy & Administration
 - Master of Arts in Religious Studies
 - Master of Arts in Linguistics
 - Master of Arts in Philosophy
 - Master of Art Social Work

- Undergraduate Degree Programmes**
- Bachelor of Arts in Community Development
 - Bachelor of Arts in Political Science and Public Administration
 - Bachelor of Arts in Criminology and Penology
 - Bachelor of Arts in Sociology
 - Bachelor of Arts in Religion
 - Bachelor of Arts in History
 - Bachelor of Arts in Social Work
 - Bachelor of Arts in Language and Communication
 - Bachelor of Arts in Kiswahili and Journalism
 - Bachelor of Arts in Communication and Journalism
 - Bachelor of Arts in Communication and Public Relations.
 - Bachelor of Arts in Literature, Theatre and Film
 - Bachelor of Arts in Philosophy

- Diploma Programmes**
- Diploma in Public Administration
 - Diploma in Criminology
 - Diploma in Social Work
 - Diploma in Community Development

- Certificate Programmes**
- Certificate in Social Work
 - Certificate in Community Development
 - Certificate in Community Work with Children and Youth in collaboration with the Africa Psychosocial Support Initiative (APSSI)

SCHOOL OF BUSINESS & ECONOMICS

- Ph.D Programmes**
- Ph.D in Business Administration

- Masters Degree Programmes**
- Master of Science in Human Resource Management
 - Master of Business Administration
 - Master of Science in Economics and Statistics
 - Master of Science in Financial Economics
 - Master of Science in Economic Policy Analysis and Management
 - Master of Science in Agricultural Economics and Resources Management

- Undergraduate Degree Programmes**
- Bachelor of Commerce
 - Bachelor of Science in Economics
 - Bachelor of Science in Agricultural Economics & Resource Management
 - Bachelor of Agribusiness Management
 - Bachelor of Science in Human Resource Management
 - Bachelor of Science in Financial Economics
 - Bachelor of Science in Economics and Statistics
 - Bachelor of Science in Entrepreneurship
 - Bachelor of Science in Project Planning and Management

- Diploma Programmes**
- Diploma in Business Management
 - Diploma in Human Resource Management

- Certificate Programmes**
- Certificate in Business Management
 - Certificate in Human Resource Management



SCHOOL OF EDUCATION

- Ph.D Programmes**
- Ph.D in Educational Administration
 - Ph.D in Educational Curriculum and Media Studies
 - Ph.D in Educational Psychology
 - Ph.D in Educational Guidance and Counseling
 - Ph.D in Educational Curriculum Studies

- Masters Degree Programmes**
- Master of Education (Guidance & Counseling)
 - Master of Education (Educational Administration)
 - Master of Education (Early Childhood Development)
 - Master of Education (Philosophy of Education)
 - Master of Education (Special Needs Education)
 - Master of Education (Educational Psychology)
 - Master of Education (Curriculum Instruction & Media)
 - Master of Education (Sociology of Education)
 - Master of Education (History of Education)
 - Master of Education (Curriculum Studies)
 - Master of Education (Comparative Education)
 - Master of Education (Executive) in Leadership and Policy Studies

- Undergraduate Degree Programmes**
- Bachelor of Education (Arts)
 - Bachelor of Education (Science)
 - Bachelor of Education (Early Childhood Development Education)
 - Bachelor of Education (Arts) with Special Needs Education
 - Bachelor of Education (Science) with Special Needs Education
 - Bachelor of Education (Arts) with Guidance and Counseling
 - Bachelor of Education (Science) with Guidance and Counseling

- Diploma Programmes**
- Diploma in Education (Primary Option)
 - Diploma in Early Childhood Development Education
 - Diploma in Education (Arts)
 - Diploma in Education (Science)

SCHOOL OF SCIENCE & INFORMATION SCIENCES

- Ph.D Programmes**
- Ph.D in Chemistry
 - Ph.D in Pure Mathematics
 - Ph.D in Physics
 - Ph.D in Applied Mathematics
 - Ph.D in Applied Statistics

- Masters Degree Programmes**
- Master of Science in Chemistry
 - Master of Science in Pure Mathematics
 - Master of Science in Physics
 - Master of Science in Applied Statistics
 - Master of Science in Applied Mathematics
 - Master of Science in Information Science
 - Master of Science in Computer Science
 - Master of Science in Applied Entomology

- Undergraduate Degree Programmes**
- Bachelor of Science in Computer Science
 - Bachelor of Science in Information Science
 - Bachelor of Science in Applied Statistics with Computing
 - Bachelor of Science in Botany
 - Bachelor of Science in Chemistry
 - Bachelor of Science in Zoology
 - Bachelor of Science in Physics
 - Bachelor of Science in Mathematics
 - Bachelor of Science in Microbiology

SCHOOL OF TOURISM & HOSPITALITY AND LEISURE MANAGEMENT

- Undergraduate Degree Programmes**
- Bachelor of Tourism Management
 - Bachelor of Science in Parks Recreation and Leisure Management
 - Bachelor of Hotel and Hospitality Management



STUDENTS PROGRAMMES (PSSP)

SCHOOL OF NATURAL RESOURCE AND ANIMAL SCIENCES

Ph.D Programmes

- Ph.D in Land Resource Management
- Ph.D in Environmental Planning and Management
- Ph.D in Environmental Studies

Masters Degree Programmes

- Master of Science in Environmental Studies
- Master of Arts in Geography
- Master of Environmental Planning and Management
- Master of Science in Land Resource Management

Undergraduate Degree Programmes

- Bachelor of Science in Wildlife Management
- Bachelor of Science in Forestry Ecosystems Management
- Bachelor of Science in Animal Health & Production
- Bachelor of Arts in Geography
- Bachelor of Environmental studies (Biology and Health)
- Bachelor of Environmental studies (Earth Sciences)
- Bachelor of Urban and Regional Planning
- Bachelor of Environmental Management

Diploma Programmes

- Diploma in Wildlife & Tourism Management.
- Diploma in Animal Health and Production

Certificate Programmes

- Certificate in Wildlife & Tourism Management

SCHOOL OF HEALTH SCIENCES

Undergraduate Degree Programme
Bachelor of Science in Nursing

Diploma and Certificate Programmes
Diploma in Nutrition and Dietetics

WHY STUDY AT MAASAI MARA UNIVERSITY

- Wide array of accredited programmes
- Qualified faculty staff
- Serene and secure learning environment
- Proximity to the Maasai Mara reserve and the Mau complex
- Internet fiber connectivity facilitating teaching and research
- Top students are engaged as Graduate Assistants
- Vibrant cosmopolitan community
- Opportunities for scholarships



MINIMUM ENTRY REQUIREMENTS

- **PhD programmes:** A Masters degree in the relevant field from a recognized University.
- **Masters programmes:** 2nd Class Honours (Upper Division) from a recognized university OR 2nd Class Honours (Lower Division), with two years' post qualification relevant work experience.
- **Undergraduate programmes:** Mean Grade of C+ in KCSE or a C/C- with a relevant Diploma
- **Diploma programmes:** KCSE Mean Grade of C/C- and above or a Mean Grade of D+ with a Certificate from a recognized institution.
- **Diploma in Education (Arts /Science):** KCSE Mean Grade of C+ and a C+ in two teaching subjects.
- **Diploma in Education (Primary Option):** Mean Grade of C+ or a Mean Grade of C (plain) with a P1 certificate.
- **Certificate programmes:** KCSE Mean Grade of D+ and above.



HOW TO APPLY

Official application forms are available at the Admissions office or can be downloaded from our website www.mmarau.ac.ke. Duly completed application forms should be accompanied by a non-refundable application fee of Kshs. 500/= for Certificate and Diploma programmes, Kshs. 1000/= for Undergraduate programmes and Kshs. 2000/= for postgraduate programmes. Payments should be deposited into any of the following University accounts: Co-operative Bank Ltd, Narok Branch (01129337192600) or Equity Bank, Narok branch (0360292999764).

INTAKES

- Full time and Evening modes of study : January, May and September
- School based/Part time -Programmes in School of Education: April, August and December

BOARD OF POSTGRADUATE STUDIES



By Dr. Kodak Benard

Snr. Lecturer of Linguistics
Maasai Mara University

The Board of Postgraduate Studies at Maasai Mara University coordinates the administration of all Masters and Doctor of Philosophy programmes in the diverse fields of social sciences and cultural studies, philosophy, education, tourism and natural resources, environmental conservation, biological and physical sciences, information technology, urban and built space planning, water conservation and hydrological studies. The Board has the major responsibility to support and review postgraduate programmes to align with the national goals of Education and the Big Four Agenda as well as the university niche of environmental conservation. The Board coordinates the admission of students, coursework and research. Our students are exposed cutting-edge research methodologies by qualified senior lecturers and re-known professors in their various fields of specialization.

They are further exposed to at least three seminar series during the academic year, where the budding scholars and researchers disseminate their research findings among peers and reviewers. The students are expected to publish at least two research articles in peer-reviewed international journals before submitting their theses for examination. The Board identifies senior scholars in other universities as External Examiners to examine our theses before students are invited to give oral presentations of the same. Our proposals and theses standards and format are guided by the best practices on academic writings. All research documents at the postgraduate level are applied to the plagiarism checking software which is owned by the university.

This is guided by the University Plagiarism Policy which stipulates the acceptable similarity levels of any document as compared with internet sources and other university repositories around the world. All postgraduate documents such as application forms, admission letters, progress report, thesis correction, intent to submit, intent to graduate forms, plagiarism clearance certificate and Rules and Regulations, Proposal/Thesis Format and Plagiarism Policy are available on-line and students can access and download the at the university website www.mmarau.ac.ke them from any corner of the globe. The aim is to attract, train and retain the best scholars and researchers for the nation and the global community.

BACKGROUND

Maasai Mara University is a Kenyan Government owned University situated within Narok County, 1 km from Narok town. The University was chartered in 2013 to operate as a fully fledged institution having started in 2007 as a Constituent College of Moi University. The University currently has a student population of over 10,000 students.

The University is strategically situated between Maasai Mara Game reserve - the 7th wonder of the world, famous for the wildebeest migration and home to unique wildlife species and the Mau Forest complex, one of Kenya's greatest water towers. The University has positioned itself as a Centre of excellence in Natural Resources, Tourism, Hotel and Hospitality Management, Science and Technology, Agriculture taking full advantage of its location and the opportunities it presents. The University's strategic plan 2019-2024 is geared towards setting up a number of projects including: A processing plant for indigenous food and medicinal products, research and training laboratories; sanctuary and camp site in the Maasai Mara National Reserve,

UNIVERSITY GOVERNANCE

The University is governed by the Council, responsible for approving policies and budgets, resource mobilization and general oversight of the management of the University in line with statutory and regulatory provisions. The current Council consists of nine (9) members who are highly experienced professionals drawn from various fields, under the leadership of Dr. Samuel Agonda Ochola, an esteemed scholar. Maasai Mara University is run by a management team headed by the Vice-Chancellor whose focus is to steer the University towards achieving world class status. The University strives not only to produce well trained graduates for the local and global market but also contribute to knowledge advancement through quality teaching, research and innovation. The University offers a wide range of market driven programmes run by competent faculty. The University continues to expand its facilities to meet the growing demands, notable is the ongoing construction of a lecturer hall complex and plans are underway to construct a modern library. To enhance service delivery, the University has adopted a Quality Management System based on ISO 9001: 2015. The Academic and Student Affairs Division is headed by the Deputy Vice-Chancellor Prof. Bulitia Godrick Mathews. The Division has put in place the necessary structures to ensure that the academic programmes are run professionally and that students are provided with a conducive environment to enhance their learning experiences.

ACADEMIC PROGRAMMES

University Academic Orientation

Maasai Mara University is the only Institution of learning serving historically marginalized regions in the South Rift including Kajiado and Narok Counties and the densely populated Counties of Bomet and Kericho. It currently offers a total of fifty two (52) Undergraduate, fifty (50) Post-graduate Nine (9) Diploma and six (6) Certificate programmes. The University is at the same time reviewing the Academic Programmes to align them with the University's overall niche. The University has continued to review and develop market driven programmes in response to existing and emerging concerns as well as train students who are able to create employment. The University's strategic location within the greater Mara-Mau Ecosystem places it in the forefront in addressing challenges within the region as well as contribute to the national development agenda. Some of the local challenges the University is addressing through its academic and research activities are indicated below:

a) **Deforestation:** The University is located next to the Mau forest complex, a key water catchment area with high level of deforestation arising from encroachment of the forest land. The University offers a Bachelor of Science in Forestry Ecosystems Management and is involved in research and outreach activities aimed at restoration of the Mau forest complex as well as engaging the local community on the negative effects of environmental degrading activities such as charcoal burning. The programme is to be re-engineered to Bachelor of Science in Agro-Forestry Management that will capture emerging trends in the Forestry sector such as on-farm forestry.

b) **Water resource management:** Narok County is faced with perennial flooding arising from its topography, causing massive destruction to property, disruptions to livelihoods and fatalities.

The University is focused on supporting the County and national government in training personnel and undertaking research in flood management. To this end, the University is in the process of developing a Bachelor of Science in Flood Management programme to complement existing programmes in environmental management. This programme is not only geared towards managing floods but also is aimed at finding ways of harvesting rain water to address the water shortage in Narok and neighboring counties.

c) **Agricultural practices:** Narok County is predominantly an agricultural region known for livestock farming, large-scale wheat and barley production. However, the productivity especially in livestock management is affected by the cultural practices of the local community including the nomadic way of life that is not tenable in the current land tenure system. The local community can no longer freely move with the animals in search of pasture and therefore require a paradigm shift in animal husbandry. The University has developed a Bachelor of Science in Animal Health and production and a Diploma in the same to train professionals for the region and beyond and undertake research in this area. Already, MMU staff and students are engaged in research aimed at addressing the wheat rust problem that is a bane to farmers in the county.

d) **Wildlife Conservation and Tourism Management:** Wildlife is a key attraction in the Kenyan Tourism sector, a major foreign currency earner and contributor to the national GDP. Proper management of wildlife is therefore a key concern to Maasai Mara University given its proximity to the Maasai Mara game reserve. The University offers a Bachelor of Science in Wildlife programme and is in the process of realigning it with the current market demands by incorporating additional skills in animal care, para-veterinary qualifications, research tools e.g. ArcGIS and radio telemetry. MMU also plans to develop a Bachelor of Arts in Film, Animation and Photography aimed at supporting wildlife, tourism and other sectors.

The University's programmes are also geared towards supporting the Governments' development plans and specifically the big 4 agenda. The University has developed a programme in Bachelor of Science in Leather Production and Processing and is collaborating with the County government and other partners.¹

to develop a tannery in order to take full advantage of the readily available raw materials. Similarly, the University is at an advanced stage to establish a factory on alternative medicines (Herbal medicine) to be supported by the Bachelor of Pharmacy which is under development under funding from DFID. The programme will improve on the indigenous knowledge and drug discovery in the region and the country.

Maasai Mara University is also re-engineering its Bachelor of Computer Science to incorporate artificial intelligence and robotics and Bachelor of Science in Entrepreneurship to Bachelor of Science in Entrepreneurship and innovation which are expected to support the manufacturing sector. University's programmes in Environmental management, Agricultural resource management are aimed at strengthening food security in Kenya through training and research. The proposed programmes in flood management will also play a critical role in enhancing food security in Narok and other regions. The Bachelor of Urban and Regional planning is among the programmes supporting one of the big 4 agenda on affordable housing, while the programmes in the School of Health and Applied sciences; Bachelor of Science in nursing, Bachelor of Science in Nutrition and Dietetics are enablers of the agenda on affordable healthcare.

RESEARCH AND INNOVATION

Since its foundation, Maasai Mara University has developed a clear academic profile with defined fields of excellence in research and innovation. The University's belief in a knowledge-driven economy informs its endeavours in undertaking meaningful research and innovation. In its quest to solve major challenges that face societies now and, in the future, the University embraces interdisciplinary and trans-disciplinary approach to research. Through its research activities, Maasai Mara University is able to generate evidence that informs strategic action and policymaking both at the county and national levels. The university's research focus is categorized thematically and aligned according to its sub-niche areas.

Tourism, Hospitality and Natural Resource Management

- 1.Sustainable practices and community-based tourism;
- 2.Innovation and emerging technologies in hospitality and tourism;
- 3.Tourism policy, planning, development and management;
- 4.Hospitality management and marketing;
- 5.Leisure, recreation and wellbeing;
- 6.Events, festivals and tourism;
- 7.Dynamics in Human Resource;
- 8.Financial Reporting in SMEs;
- 9.Macro-Economic Policy;
- 10.Global supply Chain management; and
- 11.Creative innovation and fostering entrepreneurship.

Water Resource, Environmental Management and Technology

- i.Water Quality;
- ii.Environmental Sciences;
- iii.Geography and Spatial Planning;
- iv.Animal Health and Production;
- v.Wildlife Management;
- vi.Forest Utilization and Management;
- vii.Infrastructure Development and Technology Transfer;
- viii.Financing and sustainability of Non-Renewable Energy;
- ix.Water Contamination Management;
- x.Flood Management;
- xi.Information Systems and use of computer;
- xii.Management Information Systems;
- xiii.Dynamical systems;
- xiv.Differential Equation and Mathematical Modelling; and
- xv.Solar energy research.

Cultural Heritage and Social Development

- i.Culture and changing Environment;
- ii.Social work and Community Nursing;
- iii.Social Media platforms on use of different media system;
- iv.Intelligence and Security Studies;
- v.Policy Issues in Education;
- vi.Film and Games Design;
- vii.Language and Creative Writing;
- viii.Linguistics;
- ix.Foreign Languages;
- x.African Languages;
- xi.Film Studies;
- xii.Literary Studies;
- xiii.Communication;
- xiv.Social Development;
- xv.Philosophy and Religion;
- xvi.History and Governance;
- xvii.Education, Foundation & Psychology;
- xviii.Special Needs Education;
- xix.Teacher Education;
- xx.Curriculum Studies; and
- xxi.Culture, experience and heritage.

Food Security and Health

- i.Agriculture and Rural Development;
- ii.Crop protection;
- iii.Parasitology/entomology;
- iv.Microbiology;
- v.Nano-chemistry and Pharmaceutical studies;
- vi.Waste Biomass to Energy;
- vii.Algae and wheat rust;
- viii.Health Economics;
- ix.Sports, Health and exercise;
- x.Medical Ethics;
- xi.Genetically Modified and Organic Foods;
- xii.Medical Ethics and Journalism;
- xiii.Food Security among Nomadic Communities; and
- xiv.Agri-Business Management.

JUSTIFICATION FOR THE NEW SUB-NICHE AREAS

Tourism, Hospitality and Natural Resource Management

Beach tourism, eco-tourism, sports tourism and cultural tourism are the building blocks of the tourism sector in Kenya. Tourism is a major income earner for the Kenyan economy. For example, in 2018, it contributed 8.8% to the country's Gross Domestic Product. Moreover, the sector offers approximately 1.1 million employment opportunities in both public and private sectors. Importantly, the potential role of tourism in the achievement of the social and economic pillars of Vision 2030 and the realization of the Big Four Agenda is a reality we cannot wish away. Narok County, home to the Maasai Mara Game Reserve, which is renowned for its participation in eco-tourism and cultural tourism, has a significant role to play in the establishment of a thriving tourism sector in Kenya.

The university's strategic location makes it ideal to offer well designed programmes that will prepare professionals who can make a positive contribution to the growth of the tourism industry nationally and internationally. The proximity of the institution to the Mara Game Reserve allows students to experience a blend of theoretical and practical learning.

Additionally, research initiatives under this sub-niche are designed to provide practical solutions, documentation of folk ecology for posterity and concerns of rampant human-animal conflict folk-ecology. Water Resource, Environmental and Technology Management Resources are the backbone of strong economies. In using resources and transforming them, capital stocks are built up, which add to the wealth of present and future generations. In order to have healthy communities, we need an environment that is non-toxic, clean air and safe water. The Mau complex is one of the major water catchment areas in Kenya and the East African Region.

Programmes designed under this sub-niche are tailored towards producing human capital that can adequately manage and conserve natural resources. In addition, these programmes are aimed at making significant contributions that will inform the attainment of sustainable development as envisioned in the Big Four Agenda and in the Social, Political and Economic pillars of the Kenya Vision 2030. Notably, programmes in this sub-niche give the university a competitive advantage and consequently, the institution has experienced a rise in enrolment rates.

The university has identified areas that need to be established and operationalized including the MMU Botanical Garden, which will conserve indigenous plant species and act as a scenic area for leisure and environmental aesthetics, research in alternative/ethno-medicine, training of ethno-medicine practitioners and an Institute of new and renewable energy. Cultural Heritage and Social Development: Cultural heritage is essential in defining a people's identity and preserving their integrity both as individuals and a collective. Further, it provides a sense of continuity in a fast and changing world

for future generations. To facilitate this, the university has developed programmes under this sub-niche that are aimed at promoting our rich cultural heritage. Also, the programmes equip learners to engage meaningfully in socio-economic activities geared towards the elimination of social problems, alleviating illiteracy and reducing poverty levels in the society.

This sub-niche blends well with the rich Maasai cultural heritage that the local community has sustained extremely. The Maasai cultural heritage has become national brand that defines Kenya's cultural identity internationally. This brand has been exploited in the tourism industry local and national economic development. The university has embraced this culture in the design of its brand communicated through its logo, attire and artistic infrastructural designs, which give the university visibility and an enhanced competitive edge.

This sub-niche is strategically in line with the University's Act 2012, which was enacted and mandates the institution to ensure universal access to higher education. Being the only university in Narok County, Maasai Mara University makes higher education accessible to students from the local community and neighbouring counties, some of which are categorised as historically marginalised regions. Food Security and Health Kenya is primarily an agricultural country with the economy depending on this sector that contributes approximately 25% to the GDP. However, the agricultural sector has suffered in the face of climate change and this is evidenced in the increased food crises, commodity price fluctuations, depletion of natural resources and trade related issues. In response to this, the University has come up with detailed programmes that will contribute to the development of strategies to counter these challenges. The programmes will also encourage sustainability in increased agricultural productivity and disseminate information on management of food insecurity.

The University developed the health programmes based on a needs assessment that revealed the need to address concerns including maternal/neonatal mortality as a result of many women in remote areas of Kenya giving birth without being attended to by qualified medical personnel. Consequently, the university identified this as an area with a high potential for

medical research, medical tourism and opportunities to sensitise the local community against harmful cultural practices such as female genital mutilation (FGM). The programmes aim at addressing the shortage of skilled midwifery labour and professional nurses in Kenya to provide leadership in practice, education and research. Notably, the programmes in this sub-niche area are salient to the nation's attainment of universal healthcare.

STRONG POINT OF MAASAI MARA UNIVERSITY

Maasai Mara University has been able to make great strides as a result of the following attributes:

1. **Cohesive and Top-Notch Professionals in Management:**

Maasai Mara University prides in its members of the University Council and the University Senate who are drawn from varied fields of knowledge and rich experience in running Institutions of Higher Learning. Both the Council and the Senate are working harmoniously in accordance with the 2010 Constitution of Kenya.

2. **Quality and Authentic Academic Programmes:**

The University offers a wide range of Academic programmes accredited by the Commission of University Education and the relevant regulatory bodies. The curricula is tailored to train students in the technical areas and also equip them with entrepreneurial, ICT and analytical skills among others, to prepare them to offer solutions in the 21st century. The curricula are reviewed continually in response to the changing demands.

3. **Highly Skilled and Qualified Staff:**

Maasai Mara University has highly trained faculty who meet the local and international standards. The staff are recruited competitively in line with the guidelines set by the Commission of University Education. The staff are involved in research activities both locally and internationally.

4. **Conducive Environment.**

The University is situated in a serene, safe and secure environment with the necessary learning and recreational facilities. New and international students are provided with accommodation within the campus.

5. **Good Internet Connectivity:**

The University has access to the Fiber Optic providing steady and reliable internet connectivity for teaching, research and communication.

6. **Strategic Location:** The University's competitive advantage lies in its strategic location between the Maasai Mara reserve and the Mau Forest Complex. These resources support the University's goal to nurture professionals and researches in environmental conservation. In addition, the University is involved directly in the restoration of the Mau forest in partnership with the local communities.

Maasai Mara University also has the advantage of being the only Government owned University within the expansive and cosmopolitan Narok and Kajiado counties. The two counties are located in an agricultural based region known for wheat, barley and livestock production. These intertwined with the rich Maasai culture makes the University an ideal place for programmes in Agriculture, Culture, Tourism, Wildlife and Natural Resources.

7. **Conference Centre:**

The University hosts a number of regional and national conferences, meetings, sporting and other activities owing to its location and facilities.

8. **Good Infrastructural Network:**

The institution benefits from a good road network linking it to main towns within the country and beyond. The University can also be accessed through air and is set to benefit from the ongoing construction of the Standard Gauge Railway (SGR) which will pass through the county.

9. **Student Mentorship and Empowerment:**

Professionalism, excellence, creativity and innovativeness, are the core values that are rooted in the lives of students, enhancing the attractiveness of our graduates in the job market. The students engage in various co-curricular activities such as sports, drama and music where they excel in local competitions. Our students have also secured scholarships locally and internationally. The University absorbs top students as Graduate Assistants, to motivate students and to grow its faculty.

10. **Diversity:** The cosmopolitan nature of the University and surrounding environment exposes students to diverse cultures and interests contributing to the exiting experiences and enhances tolerance and co-existence among students and staff.

11. **Proactive Students:** The University prides in diligent and students who work smartly to outshine other learners in innovations, research and sports. Hence, each year they earn awards in countless fields of life. The recent one is where Lorna Waweru Wanjiru, a student stood tests to clinch the First-Runners Up position in this year's 2019 National Capital Markets University Challenge.

12. **Embracing Modern Teaching and Learning Techniques:**

Maasai Mara University has thirst to equip students with hands on training and experience through modern educational infrastructure.



Therefore, it does not hesitate to welcome advancements in technology and training tools. Currently, it has incorporated modern Science labs and lecture rooms and furniture. The Varsity yearns to fully shift to electronic teaching and learning methods e.g. the use of the portable finger touch interactive whiteboard where one uses his finger to write on the board rather than using whiteboard pens.

13. **The Spectacular Botanical Garden:** The University is humbled to have patented a magnificent Botanical Garden with more than 300 species of medicinal plants. The garden's architectural design symbolizes the human body system where medicinal plant species are planted with respect with human body part it treats. This is realized through a unique innovation in Kenya where waste water is biologically treated using water hyacinth hence authentic for garden irrigation.

A herbal medicine factory is yet to be established to utilize raw materials from the garden.

14. **Hotbed of Talents:** Both students and staff embody diverse talents in performing arts where they always bag trophies with whooping scores during the yearly Kenya National Universities and Colleges Drama and Theatre Festivals as well as the Kenya National Universities and Colleges Music Festivals. This has also attracted revered entertainers and artistes to host regional entertainment gigs in the University.



15. **Research, Innovation and Policy Development:** The Varsity also thrives in the Knowledge Society fostering the Knowledge driven economy hence engaging in meaningful research, innovation and extension. Through the notable research breakthroughs, projects and collaborations Maasai Mara University is able to solve problems in the society. Government policies and procedures also emanate from research. Despite the big strides made by the University towards achieving its vision, it is still requires substantial funding to expand its existing physical and human resources and research activities.

RESEARCH ACTIVITIES

University staff and students are engaged in various research activities under the following research themes: School of Arts and Social Studies

- 1.Linguistics
- 2.Foreign Languages
- 3.African Languages
- 4.Film Studies
- 5.Literary Studies
- 6.Communication
- 7.Social Development
- 8.Philosophy and Religion
- 9.History and Governance

School of Science and Information Sciences

- 1.Crop protection
- 2.Parastology/entomology
- 3.Water quality
- 4.Microbiology
- 5.Information Systems and use of computer
- 6.Management Information Systems
- 7.Artificial Intelligence
- 8.Nanochemistry and Pharmaceutical studies
- 9.Waste Biomass to Energy
- 10.Dynamical systems
- 11.Differential Equation and Mathematical Modelling
- 12.Pure Mathematics
- 13.Solar energy research
- 14.Algae and wheat rust

School of Tourism, Hospitality and Leisure Studies

- 1.Sustainable practices and community-based tourism;
- 2.Innovation and emerging technologies in hospitality and tourism;
- 3.Tourism policy, planning, and development and management;
- 4.Culture, experience and heritage
- 5.Hospitality management and marketing;
- 6.Leisure, recreation and wellbeing
- 7.Events, Festivals and tourism

School Natural Resources Management and Animal Sciences

- 1.Environmental Sciences
- 2.Geography and Spatial Planning
- 3.Animal Health and Production
- 4.Wildlife Management
- 5.Forest Utilization and Management

School of Business and Economics

- 1.Infrastructure Development and Technology Transfer
- 2.Dynamics in Human Resource
- 3.Financial Reporting in SMEs
- 4.Financing and sustainability of Non-Renewable Energy
- 5.Social Media platforms on use of different media system
- 6.Agriculture and Rural Development
- 7.Macro-Economic Policy
- 8.Agri-Business Management

School of Education

- 1.Education, Foundation & Psychology
- 2.Special Needs Education
- 3.Teacher Education
- 4.Curriculum Studies
- 5.Policy Issues in Education

PARTNERSHIPS

Maasai Mara University has collaborated and partnered with a number of both local and international institutions to enhance her financial base, Student enrolment, Research activities and Technology transfer. Some of the institutions are listed below;

1. The Government of Kenya through:

- The Ministry of Education,
- The United Nations Educational, Scientific and Cultural Organization (UNESCO),
- The National Treasury,
- The Kenya Universities and Colleges Central Placement Services (KUC-CPS),
- The Higher Education Loans Board (HELB),
- The Kenya National Examinations Council (KNEC),
- The Commission for University Education (CUE),
- The Kenya National Qualifications Authority (KNQA),
- The Kenya National Innovations Agency (KNIA),
- The National Commission for Science, Technology and Innovation (NACOSTI),
- The National Research Fund (NRF),
- The Kenya Agricultural Research Institute (KARI),
- The Ministry of Health,
- The Kenya Medical Research Institute (KEMRI),
- The National Council for Persons with Disabilities (NCPWD),

- The Ministry of Industry, Trade and Cooperatives,
- The Kenya Industrial Estates (KIE),
- The Ministry of Interior and Coordination of National Government,
- The Ministry of Lands,
- The National Construction Authority (NCA),
- The Ministry of Information, Communication and Technology,
- The Communication Authority of Kenya (CAK),
- The Kenya Broadcasting Corporation (KBC),
- KONZA Techno polis Development Authority,
- The Capital Markets Authority,
- The Ministry of Tourism and Wildlife,
- The Kenya Wildlife Service (KWS),
- The Tourism Regulatory Authority (TRA),
- The Ministry of Environment and Forestry,
- The Kenya Forest Service (KFS),
- The Kenya Forestry Research Institute (KEFRI),
- The National Environmental Authority (NEMA) and
- Kenya Veterinary board (KVB).

2. The Narok County Government

3. Kenyan Academic Institutions including; The University of Nairobi, Moi University, Maseno University, Egerton University and the Kenya School of Government (KSG),

4. Reputable Financial Institutions such as; The Kenya Commercial Bank (KCB), National Bank of Kenya (NBK), Co-operative Bank and Equity Bank.

5. Development agencies e.g. United States Agency for International Development (USAID)

6. NGOs such as the World Wildlife Foundation and Farming Systems of Kenya

7. Local conservancies and community owned agencies

8. Wuhan Botanical Garden, Chinese Academy of Sciences

9. Botanic Diamond Limited

10. Clemson University, USA

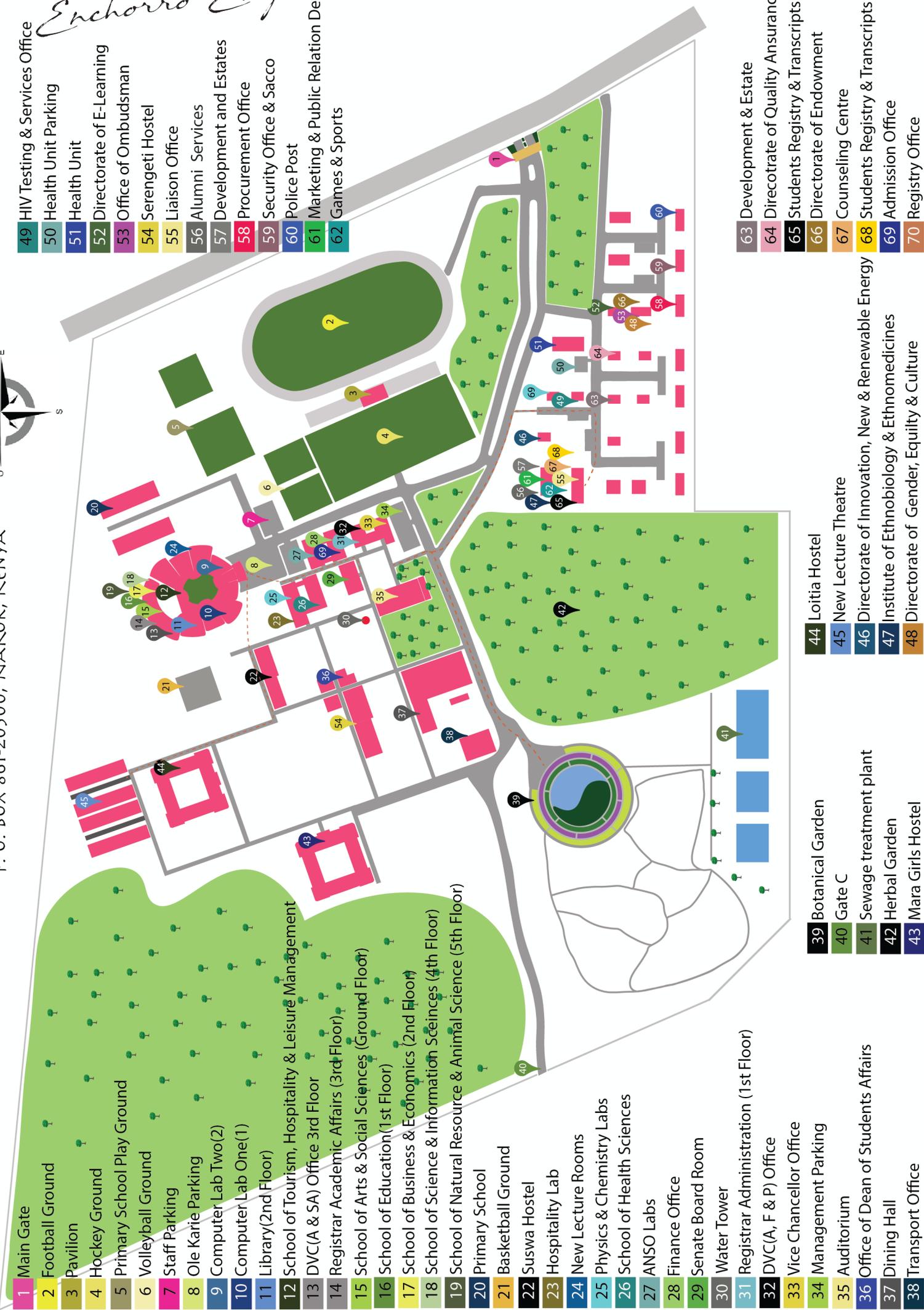
11. Regents University, London

12. University of Limerick, Ireland

13. University of Pretoria, South Africa

The University is open to engage with other partners in research, student/staff exchange programmes and development activities to achieve its vision and mission.

Enchorro Eng'eno



- 49 HIV Testing & Services Office
- 50 Health Unit Parking
- 51 Health Unit
- 52 Directorate of E-Learning
- 53 Office of Ombudsman
- 54 Serengeti Hostel
- 55 Liaison Office
- 56 Alumni Services
- 57 Development and Estates
- 58 Procurement Office
- 59 Security Office & Sacco
- 60 Police Post
- 61 Marketing & Public Relation Dev
- 62 Games & Sports

- 63 Development & Estate
- 64 Directorate of Quality Assurance
- 65 Students Registry & Transcripts
- 66 Directorate of Endowment
- 67 Counseling Centre
- 68 Students Registry & Transcripts
- 69 Admission Office
- 70 Registry Office

- 1 Main Gate
- 2 Football Ground
- 3 Pavilion
- 4 Hockey Ground
- 5 Primary School Play Ground
- 6 Volleyball Ground
- 7 Staff Parking
- 8 Ole Karie Parking
- 9 Computer Lab Two(2)
- 10 Computer Lab One(1)
- 11 Library(2nd Floor)
- 12 School of Tourism, Hospitality & Leisure Management
- 13 DVC(A & SA) Office 3rd Floor
- 14 Registrar Academic Affairs (3rd Floor)
- 15 School of Arts & Social Sciences (Ground Floor)
- 16 School of Education(1st Floor)
- 17 School of Business & Economics (2nd Floor)
- 18 School of Science & Information Sciencs (4th Floor)
- 19 School of Natural Resource & Animal Science (5th Floor)
- 20 Primary School
- 21 Basketball Ground
- 22 Suswa Hostel
- 23 Hospitality Lab
- 24 New Lecture Rooms
- 25 Physics & Chemistry Labs
- 26 School of Health Sciences
- 27 ANSO Labs
- 28 Finance Office
- 29 Senate Board Room
- 30 Water Tower
- 31 Registrar Administration (1st Floor)
- 32 DVC(A, F & P) Office
- 33 Vice Chancellor Office
- 34 Management Parking
- 35 Auditorium
- 36 Office of Dean of Students Affairs
- 37 Dining Hall
- 38 Transport Office

- 44 Loitia Hostel
- 45 New Lecture Theatre
- 46 Directorate of Innovation, New & Renewable Energy
- 47 Institute of Ethnobiology & Ethnomedicines
- 48 Directorate of Gender, Equity & Culture
- 39 Botanical Garden
- 40 Gate C
- 41 Sewage treatment plant
- 42 Herbal Garden
- 43 Mara Girls Hostel

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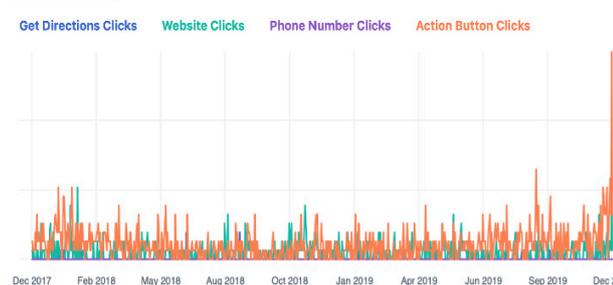
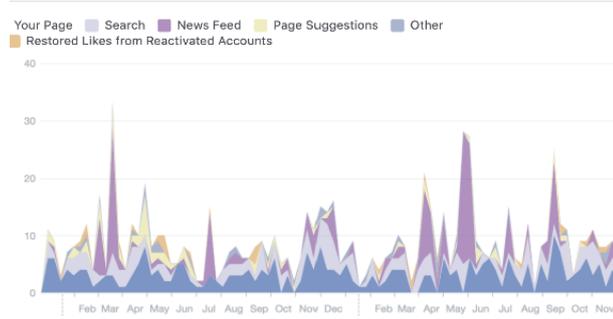
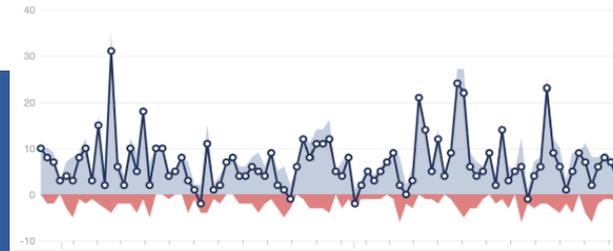
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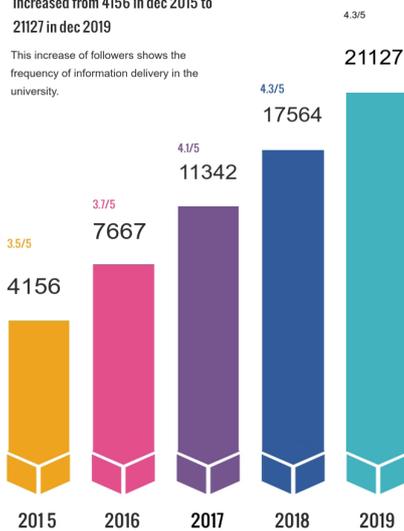
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Facebook Followers of Maasai Mara University

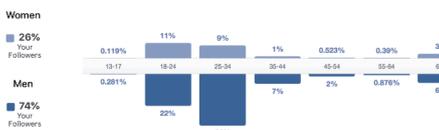
Our Facebook followers have been increased from 4156 in dec 2015 to 21127 in dec 2019

This increase of followers shows the frequency of information delivery in the university.

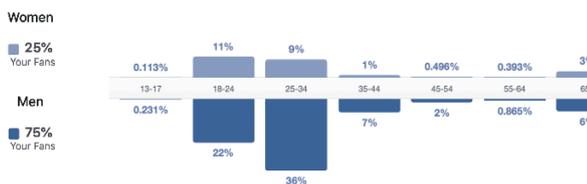


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Number of people who follow your Page. This number is an estimate.



Number of people who saw any of your posts at least once, grouped by age and gender. Aggregated demographic data is based on a number of factors, including age and gender information users provide in their profile pages. This number is an estimate.



Data shown for a recent 1-week period. Insights for the time of day are shown in the Pacific time zone.



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