



TECHNICAL UNIVERSITY OF MOMBASA (TUM)

TUM News

Volume 1, Issue 1.

January, 2013



A New Dawn

Editor's Note

A new dawn, today, breaks for the Technical University of Mombasa with the award of the Charter by His Excellency the President Hon. Mwai Kibaki. It has been a journey that started in 1948 with the setting up of the Mombasa Institute of Muslim Education (MIOME) which later became Mombasa Technical Institute. The Mombasa Technical Institute bore the Mombasa Polytechnic, a second national polytechnic in 1976. Five years ago we grew to become The Mombasa Polytechnic University College under the mentorship of Jomo Kenyatta University of Agriculture and Technology. As a child grows, so have we, and today we are proud to be the second Technical University in Kenya. With this birth, we hope you will enjoy the very first newsletter; TECHNews. Journey with us through the stories that have made us who we are today. We welcome you all to Technical University of Mombasa TUM-Tumo!



Diana Olenja

Editor:

Ms. Diana Olenja

Writers:

Ms. Trizer Mwanyika

Mr. Victor Kambi

Design Graphics:

Mr. Victor Kambi

Contributors:

Prof. Justin Irina

Dr. Charles M. Matoka

Mr. David Kimeu

Mr. Miano Kihu

Mr. Erickson K. Ruwa

Mr. Arnold M. Mulinge

Mr. Oduor S. Ofieno

INSIDE THIS ISSUE:-

Word from Ag. Vice Chancellor.....1
 Programme for Award of Charter2
 Ready for Autonomy.....5
 3rd Graduation Ceremony.....6
 TUM set to start a Medical School.....6
 TUM acquires a Marine Simulator7
 TUM to Collaborate with JICA in construction.....8
 TUM Projects.....8
 TUM gears up for ISO.....9
 Soccer team Champions SC FKF.....9
 Football lads (Young talents).....10
 Picture Speaks (A New Dawn).....10
 What an Improvement!.....11
 TUM Dining Hall.....11
 Board of Postgraduate Studies.....12
 Directorate of Research, Innovations and Extensions.....12
 TUM Hospitality and Tourism Training Centre.....13
 Courses offered at TUM.....14
 Students' Services Department.....18

Coverpage:

The newly constructed Faculty of Engineering and Technology Workshops and Laboratories.

A Word from the Ag. Vice Chancellor

I humbly welcome you to the Technical University of Mombasa (TUM) as we receive a University Charter.

We sincerely thank the Ministry of Higher Education Science and Technology for considering us fit and able to go it alone as Technical University. This is an indication that they approve our capability and ability as an institution of higher learning in the field of Engineering, Science and Technology. Indeed it was a challenge to attain all the required standards, and we acknowledge the mentorship by our mother University, Jomo Kenyatta University of Agriculture and Technology (JKUAT). With confidence we say, we are ready to get out of the crib, and walk boldly alone.



Prof. J. K. Z. Mwatelah

I take this opportunity to thank the Government, the Council, the Management and all stakeholders, for your efforts towards the awarding of the Charter. We would not have attained the heights without your effort, however small.

PROGRAMME

for

Award of Charter

to

Technical University of Mombasa

by

His Excellency the President

Hon. Mwai Kibaki, C.G.H., M.P.

on

Wednesday, 30th January, 2013

at

10.00 a.m.

PROGRAMME

Serial	Time	Event
1.	9.30 a.m.	All invited guests shall be seated at Technical University of Mombasa grounds
2.	10.00 a.m.	His Excellency the President Hon. Mwai Kibaki, C.G.H., M.P., accompanied by Her Excellency the First Lady, Mrs. Lucy Kibaki, E.G.H., escorted by the Provincial Commissioner, Coast Province, Mr. Samuel Kilele, arrives at Technical University of Mombasa.
3.		On arrival, His Excellency the President and Her Excellency the First Lady are received by the Minister for Higher Education, Science and Technology, Hon. Prof. Margaret Kamar, E.G.H., M.P.; Permanent Secretary, Ministry of Higher Education, Science and Technology, Prof. Crispus M. Kiamba; Chairman of the Commission for University Education, Prof. Ezra K. Maritim; Vice-Chair, Commission for University Education, Mrs. Jane Ngige; Secretary to the Commission for University Education, Prof. David Kimutai Some; Chancellor; Chairman of Council, Eng. Mrs Roseline Ambasi; Ag. Vice-Chancellor, Prof. Josphat Mwatelah.
4.		NATIONAL ANTHEM
5.		His Excellency the President plants the ceremonial tree.
6.		His Excellency the President signs the Charter.
7.		His Excellency the President signs the visitor's book.
8.		His Excellency the President views a model of the University and its Campuses.
9.		His Excellency the President unveils a plaque to commemorate the award of Charter
10.		His Excellency the President cuts a ribbon and unveils a commemorative plaque to officially open the Engineering Block.
11.		His Excellency the President is taken on a guided tour of the facility.
12.		His Excellency the President proceeds to the Presidential dais in procession.
13.		NATIONAL ANTHEM
14.		Opening Prayers by: <ol style="list-style-type: none"> a. Sheikh Hammadi Kassim, former Chief Kadhi of Kenya b. Rev. Fr. Willybad Lagho, Vicar – General, Catholic Archdiocese of Mombasa
15.		Entertainment
16.		Chairperson of Council, Eng. Mrs Roseline Ambasi Jilo, makes welcoming remarks.
17.		The Secretary to the Commission for University Education, Prof. David Kimutai Some announces that His Excellency the President has agreed to award a Charter to Technical University of Mombasa and invites the Chairman of the Commission for University Education to make his remarks.
18.		The Chairman of the Commission for University Education, Prof. Ezra K. Maritim speaks.

19. The Secretary to the Commission for University Education, Prof. David Kimutai Some reads the Citation and invites His Excellency the President to award the Charter.
20. His Excellency the President reads the Citation, awards the Charter and presents Instruments of Authority (Mace, Logo, Seal) and Accreditation Report to the Chairperson of Council, Eng. Mrs Roseline Ambasi Jilo
21. Installation of the Chancellor, by the Chairperson of Council, Eng. Mrs Roseline Ambasi Jilo
22. The Chairperson of Council, Eng. Mrs Roseline Ambasi Jilo, hands over the Charter, Instruments of Authority (Mace, Logo, Seal) and Accreditation Report to the Chancellor.
23. The Chancellor hands over the Charter, Instruments of Authority (Mace, Logo, Seal) and Accreditation Report to the Ag. Vice - Chancellor, Prof. Josphat Mwatelah, who then displays the Mace to the congregation.
24. Prayer for commissioning and dedication by:
 - a. His Grace, Rt. Rev. Julius Kalu, Bishop of the Anglican Church of Kenya, Mombasa Diocese;
 - a. Sheikh Modhar Khitamy, Chairman, SUPKEM, Coast Branch
25. The Ag. Vice-Chancellor, Prof. Josphat Mwatelah invites the Chancellor, Chairman of Council and Vice-Chancellor of Jomo Kenyatta University of Agriculture and Technology to give their goodwill message.
26. The Ag. Vice Chancellor acknowledges other goodwill messages and invites the Chancellor of Technical University of Mombasa to speak.
27. The Chancellor speaks and invites the Minister for Higher Education, Science and Technology, to speak.
28. The Minister for Higher Education, Science and Technology, Hon. Prof. Margaret Kamar, E.G.H., M.P., speaks and invites His Excellency the President, Hon. Mwai Kibaki, C.G.H., M.P., to speak.
- 29. His Excellency the President, Hon. Mwai Kibaki, C.G.H., M.P., makes his address**
- 30. NATIONAL ANTHEM**
31. The procession leaves in reverse order with the mace bearer leading.

(The audience is requested to remain standing until His Excellency The President Hon. Mwai Kibaki, C.G.H., M.P. and Her Excellency the First Lady, Mrs. Lucy Kibaki leave).

32. Photo Session
33. Their Excellencies leave at their pleasure.

We Are Ready For Charter, Poly Officials Say

By Trizer Mwanyika

As the Mombasa Polytechnic University College (MPUC) attained a University College status four years ago, its road towards a full university seemed rather long and possibly bumpy.

But the leading academicians who were entrusted with the challenging task of steering it forward are today unanimous on one thing: that the College has come of age and is now ripe for the autonomy.

Over those four years, the huge investment in infrastructure, manpower and expansion of the academic programmes coupled with prudent management has hastened the transformation of the MPUC into the now **Technical University of Mombasa (TUM)**, its new brand.

The acting Vice Chancellor Prof. Josphat Mwatelah Ziro says the institution has fulfilled all the conditions set by the government for the grant of a Charter, a fact also echoed by the Vice Chancellor of JKUAT, Prof. Marbel Imbuga, when she attended the 3rd graduation ceremony at MPUC in November, last year.

Prof Mwatelah says: "We have particularly done a lot on infrastructure. Indeed a person re-visiting here after being away for, say, a year will be amazed to see all the new buildings put up recently to house lecture halls, laboratories and workshops for the students," says Prof. Mwatelah. Still, the management has more projects lined up for implementation to fit the new status. "We are not stopping at this. With the help of the government and the council we will do more to meet all the standards of a fully fledged University", he added. The acting Vice Chancellor pointed out that the Institution has improved on manpower. "We have recruited staff based on the requirements of a University and taken quite a number for further studies in their

relevant fields. This is a sign that we indeed are up to the challenge," Prof. Mwatelah said.

Also, the Institution has sponsored a number of staff members for PhD, Masters and Undergraduate studies, as a strategy to ensure the lecturers are well equipped to deliver quality service to the students. A University status requires that the institution establish partnerships with both local and international institutions.

The Technical University of Mombasa (TUM) has fully embraced this, having already established collaboration with close to 25 institutions, the latest one being Ghent University with which it has signed an agreement to start a medical school.

The University College has been under mentorship of Jomo Kenyatta University of Agriculture and Technology (JKUAT) since it was elevated from a Polytechnic in August 2007. The institution, through the acting vice chancellor lauded the mentorship of the mother university and termed it as the best mentorship that the university needed. In her speech during the 3rd graduation ceremony, the JKUAT Vice Chancellor Prof. Marbel Imbuga acknowledged that this institution was ready for its own autonomy.

"For the three years we have been nurturing Mombasa Polytechnic University College, I am pleased to note the impressive speed at which this University College has progressed on the journey to become an autonomous University," Prof. Imbuga said.

By being granted the charter, the institution will have the mandate to offer its own programs which will be approved by the University Senate. The University College was offering Bachelor of Science programs because the mother University was offering the same. But the Acting Vice Chancellor notes, "We will start offering Bachelor of Engineering programs

from now henceforth and our undergraduate and post graduate students will be conferred within the institution.

The Technical University of Mombasa (TUM) has gone through many phases since its inception. It started as an institution providing technical education (craft courses) solely to Muslim students pursuing technical and professional courses up to Higher National Diploma and CPA Part three in 1940. On 22nd June 1948, the then Governor of Kenya signed the charter bringing the Mombasa Institute of Muslim Education On June 22, 1948, the then Governor of Kenya signed the Charter bringing the Mombasa Institute of Muslim Education (MIOME) into being, managed by board of governors. Upon its inception, MIOME was charged with the prime objective of providing adequate technical education to Muslim students of East Africa. The Institute was opened to Muslim Students on the 9th May 1951 for the Technical Courses of four years each. The Board of Governors accepted that if the institute was to play a full role in the development of the Education system of independent Kenya, its doors would have to be opened to any qualified students of all creeds. It was on this basis that in 1966 M.I.O.M.E became Mombasa Technical Institute (M.T.I) and started to admit any qualified Kenyan, regardless of their religious background. M.T.I became The Mombasa Polytechnic in 1972, this being the second National Polytechnic. Since then, the Polytechnic has expanded its operations in all directions and dimensions. It is then 2007 the institution was converted to a University College and now a University of its own.

Graduands Feted

By Diana Olenja

Technical University of Mombasa held its third graduation ceremony on November 22, 2012 at the graduation square. Over 2000 students were awarded certificates and diplomas at the ceremony presided over by Professor Francis Gichaga, the Chancellor of JKUAT. Addressing the congregation, Prof. Gichaga observed that education is the

foundation of modern society. He urged universities to ensure they produced 'all rounded graduates' by investing in research aimed at addressing the problems affecting Kenyans. He said the present global trends are geared towards knowledge based economies, which obligate universities to seek increased collaboration with industries, if they are to remain relevant.

following the Government's decision to transform selected existing University Colleges to full university status. Dr. Mwiria said it was the intention of the Government to see there was at least a university in each county in the country. He further advised the country's youth to take advantage of the increased educational opportunities to get the right skills for the job market. He decried the presence of secessionist groups at the coast province and asked the coastal youth to shun such groupings, saying 'what the group is agitating for was a common problem facing Kenyan youths across the country'. The solution according to the Assistant Minister was for the youth to work for Kenya's increased stability and coexistence which he said were prerequisites for national development

Speaking at the same event the assistant Minister of Higher Education, Science and Technology Dr. Kilemi Mwiria announced that Kenya will soon have thirteen more universities



Graduands during the graduation ceremony

TUM Embarks On Plan for a Medical School

by Miano Kihu

Technical University of Mombasa (TUM) will start training nurses and doctors in the near future.

This follows the launch of a tripartite agreement entered between the College and the Coast General Hospital and the Belgium's Ghent University on ways of starting a medical school within the Mombasa campus.

Those attending signing ceremony included the MPUC Principal Prof. Josphat Mwatelah, the Belgian Ambassador, the then Chairman of the MPUC Council Prof. Abdulghafur El-Busaidy, a representative from the Ministry of Medical Services Dr. Maurice Siminyu, the University of Ghent Rector, Prof. Dr. Paul Van Cauwenberge and a Belgian Parliament Senator Dr Marleen Temmerman. During the launch

Prof. Abdulghafur EL-Busaidy said the vision of having the three partners with a common objective to establish a Medical School is a brilliant idea that will not only benefit this community, but the nation at large.

In the partnership, the Coast General Hospital will provide the clinical training platform and also provide internship for the established University College Graduates.

The representative from the ministry of medical services Dr. Maurice Siminyu said the move will complement the efforts by the government in the training of medical personnel and offered that the government will support the venture.

On behalf of the University of Ghent, Prof. Dr. Paul Van Cauwenberge said his university

will develop the curriculum in collaboration with other local and international stakeholders.

University of Ghent immediately donated 200 computers that will add value to training, research, innovation and service delivery.

The Belgium senator Dr Marleen Temmerman, who doubles up as the chairman of the ICRH board, said the partnership is a start of the major collaborations, and they are ready to work with MPUC to produce quality graduates who meet the needs of the market.

Prof El-Busaidy told the meeting that the MPUC has been benchmarking with international institutions of higher learning in Africa and across the globe. One was Kyambogo University Uganda, the Makerere University School of Business (MUBS) and lately Mbeya Institute of Science and

...Continued on Page 7

...Continued from Page 6

Technology Mbeya (MIST - Tanzania). The former chairman said: "A visit by these three universities, and now Ghent University is a clear demonstration of quality of our programmes and an assurance that we indeed are acknowledged".

He however advised that the three institutions need to carefully guard on the identified strength and opportunities, as they develop strategies to address some of the identified gaps. This, he said, is as a result of the competitive forces in the higher education sector.

The launch was conducted at the MPUC graduation square on August 27, 2012.



The exchange ceremony after signing MoU between Coast Provincial General Hospital, University of GHENT and MPUC.



Former Chairman of Council Prof. Abdulghafur El-Busaidy

TUM Acquires A Marine Simulator

by Victor Kambi

Technical University of Mombasa has acquired a state-of-art Marine Engine Simulator boosting its capacity to train marine engineers and ship crew.

The new multi-million facility has been installed in the newly-built Faculty of Engineering Workshop & Laboratory Building, adjacent to the Nautical Building.

Acquisition of the Marine Engine Simulator by TUM will enhance its status as a World Class University of Engineering, Science and Technology, giving it competitive advantage over other institutions offering similar-related courses.

The Marine Engine Simulator will enable our students to train, through interaction and monitoring functions, for normal machinery operations as well as simulated faults and emergency scenarios, reflecting the reality of situations experienced on board a ship.

Since most vessels are equipped with sophisticated engine plants,

this type of computer-based training shall allow for enhanced understanding of complex controls, providing our students with the knowledge to manage their engine rooms efficiently, thus minimizing accident risks by practicing how to deal with accident and emergency related scenarios. In order to comply with the international standards, TUM aims to embark on investing more in the Maritime Education and training, particularly in providing facilities such as Simulators and at least one training vessel.

TUM is the only University in the country offering highly specialized Marine engineering courses with well equipped workshop and training facilities as evidenced by the newly-acquired Marine

Engine Simulator. Simulation is the imitation of the operation of a real-world process or system over time. The act of simulating something first requires that a model be developed; this model represents the key characteristics or behaviours of the selected physical or abstract system or process. The model represents the system itself, whereas the simulation represents the operation of the system over time.

Marine Engine Simulator models are developed, based on actual ship specifications and performance data, making the simulator as realistic as possible. Practical training environment with original shipboard monitoring and control systems are implemented into the simulation concept incorporating instructor-guided exercises for the students.

Simulators provide high quality training in every aspect, from details in a single sub-system to the overall running of a loading or discharge operation, including handling of emergency situations.



The newly acquired Marine Engine Simulator essential for training of marine engineers and merchant ship crew.

TUM to Collaborate With JICA in Mega Projects

By Diana Olenja

TUM students and staff from the Faculty of Engineering & Technology could be involved in container terminal and the Chagamwe - Dongo-Kundu by pass which will provide an alternative route to South Coast.

This was deliberated in a meeting between JICA Chief the construction of the Kenya Ports Authority's second Representative Mr. Hideo Eguchi and TUM Deputy Principal (AA), Dr. Marangi Mbogho on December 5, 2012 at Mombasa Polytechnic University College.



JICA Chief Representative Mr. Hideo Eguchi (centre), with MPUC Deputy Principal (AA), Dr. Marangi Mbogho (right) and Mr. Ishibashi Akira (left), a volunteer in MPUC from JICA.

If incorporated, the involvement will enable TUM engineering students and staff to gain more experience which will add to the TUM output as it looks forward in achieving its vision of being a World Class

University of Engineering, Science and Technology. On behalf of the Principal Prof. K.J.Z. Mwatelah, Dr. Mbogho received JICA chief representative Mr. Hideo after attending a ground breaking

ceremony for the construction of the Kenya Ports Authorities second terminal, which was officiated by President Mwai Kibaki.

How New Buildings Are Changing the TUM Skyline

By Trizer Mwanyika



The newly constructed Mabokoni Campus

As part of its preparation for her autonomy. Technical University of Mombasa (TUM) has completed a number of buildings, and others are still under construction. TUM has constructed an Engineering and Workshop block at the main campus which consists of 14 laboratories, 13 workshops, 8 architectural studios, marine simulator room, staff common rooms, offices and a rooftop restaurant.

The first phase of the project

is complete while the second phase is ongoing. There is also a construction of a Laboratory Block Consisting of 12 Laboratories at Kiziwi Hospitality center and the project is currently in its completion phase. In its quest to provide education in other areas in the country, the University College has identified a place in Kwale where construction of new campus has commenced. A 3 floors block consisting of 24 classrooms and offices is underway in Mabokoni area, Ukunda.

The University College security is also crucial hence the recent construction of a boundary wall at the main campus. The project is already complete waiting for security light to be fixed. To meet the government regulatory of having fire exits in all new buildings, some extra work was undertaken at the library to fit in fire escape centers to allow easy exit incase of emergency. There is some facelift of the roads and parking areas within the institution as they have been fit with cabro pavings and all the toilets fitted with tiles. The projects are completed and have been handed over to MPUC, by respective contractors.

TUM Gears Up For ISO Recognition

by Diana Olenja

Technical University of Mombasa is gearing towards getting ISO certified, soon. Directorate of Quality Assurance under the leadership of The Director of Quality Assurance, Ms. Christabel Chahale, recently organised an ISO implementation launch at the University's Assembly Hall. Offering quality services is essential for any given organisation. Quality services attract customers hence making the institution competitive in the market.

The speakers during the launch included both Registrars and the Deputy Principal AFP who spoke on the importance of being ISO Certified and reiterated to staff present that each and every member of staff has a role were informed on the progress achieved so far by the ISO committee and what was left in order for the



The Director of Quality Assurance, Ms. Christabel Chahale, (standing) addressing members of staff

institution to attain certification. A certifying body, SGS, had already been select to play in order to attain ISO Certification. Members of staff and what was left was the implementation of the QMS and pre-certification by SGS.

Once certified, the TUM would be effective in its service delivery and be at par with other similarly ranked institutions.

TUM Champions of South Coast FKF League

by Victor Kambi

Technical University of Mombasa (TUM) soccer team has done it again by beating Super Eagles 5-2 in the post-match penalties, after a draw of 1-1 in the regular time at Mbaraki Sports Club. TUM striker and league top scorer,

Nichodemus Odipo scored his 28th goal of the season and the first goal of the match in the 15th minute of the first half. However, Edwin Juma of the Super Eagles neutralized TUM's lead in the 87th minute taking the game to extra time and penalty kicks.

The match was witnessed by over eight hundred fans, among them His Worship the Mayor of Mombasa Mr. Ahmed Muhdhar, who presented the trophy to the champions. Apart from the trophy, TUM team pocketed 10,000 shillings as a grand prize donated by Mr. Abdulswamad Shariff Nasir while the top scorer Nichodemus Odipo got 5,000 shillings from His worship the mayor, Sheikh Mohammed Muhdhar.



Mombasa Mayor Sheikh Mohammed Muhdhar (2nd Right) handing the trophy to MPUC team

TUM Champions of South Coast FKF League

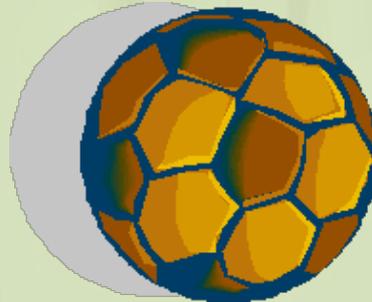
by Arnold Muasa Mulinge



Arnold Muasa Mulinge

Technical University of Mombasa fraternity has something to smile about in the football sector under the highly rated coach Mr. Joseph "Yeboa" Sihuli after recording an impressive mark in the last year's Football Kenya Federation South Coast province as they were crowned new

champions after humiliating their opponents Super Eagles 5-2. TUMs top scorer, Nicodemous Odipo netted a total of 28 league goals to secure the college win including a hat trick in the thrashing of Super Eagles of 5-2 in the group stages.



We all thank the sports department, the team lads and the coach for the initiative of nurturing young talents within the institution. We hope to see our highly talented players feature in the national team hence making

the institution a more conducive zone for students irrespective of their origin and more so in the co-curriculum activities.

A NEW DAWN



1

1. Members of the Dean's committee being shown the Architectural plan of the completed Mabokoni lecture rooms Ukunda



2

2. Newly completed Applied and Health Sciences Laboratories at Kiziwi



3

3. A Medical Sciences student in one of the laboratories.



4

4. Newly completed lecture rooms 'M-Block'.

5

5. The newly constructed Marine Engineering Block



What An Improvement!

By Erickson Kiboni Ruwa



I am delighted to be associated with Technical University of Mombasa which gives us an insight into the competitive Kenya we are in today in terms of higher education.

I am a firm believer in success and thus take great pride that, as students, we have been able to achieve so much courtesy of our

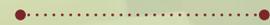
administration that has not spared any effort to improve and upgrade the education programmes. As much as I am a Diploma student in Mass communication, I do enjoy and appreciate the degree programmes that were introduced in different departments-Media Department being one of them. TUM can now boast of Masters programmes in Entrepreneurship and Business Administration. This is motivating to students and making them more confident that they are in the right place.

In terms of research, reference and reading materials, we appreciate having modern and well equipped library and a digital centre where one uses their college ID to sign in. There is availability of Journals and text books purchased by the Institution and donations from well

wishers.

Through the Government we have seen TUM increase the number of class rooms, laboratories and workshops. Soon we will have students learning at the Mabokoni Campus. We thank the management for ensuring that we acquire state of the art learning facilities such as the Marine Engine Simulator installed recently.

Students are also allowed time to participate in extracurricular activities such as Team Kubwa Drama, Big Fish choir, various sporting activities notably football. Students can also be members in other clubs such as Environmental Club, Community Outreach, Wildlife amongst others. Graduates of TUM are indeed all round.



TUM Dining Hall Proving Too Small To Cope With Numbers

By Oduor Samuel Otieno

Every mealtime at Technical University of Mombasa, dining hall is characterized by a stint of high moment, as the high number of students push and shove for an opportunity to be served without undue delay.

The popularity of the TUM coupled with its recent elevation to a university status has seen it attract more and more students from all over Kenya, and its current population is said to be about 10,000 students.

The institution has various superb facilities which rhymes well with its vision of centre of excellence university, but its startling that the poly currently owns only one dining hall whose capacity can barely serve five thousand people.

Many full time students usually take their meals at the dining hall and they have to live with worsening congestion, as no plans are on sight in the short term for establishment of a new dining hall or expansion of the existing

one. According to the current poly's catering manager Halima Athman, the Dining hall has been in use since 1983 and has travelled a long journey which deserves a thumb up.

Ms. Halima Athman recalls how she started serving in the catering department in 1983 when its status was still that of a national polytechnic. She says that by then the departments used to be under the accommodation department, where the payment for meals used to be combined with that of hostels. "By then, we were only offering the services to boarders and they had to pay in advance before they could be served, arrangement we popularly referred as 'pay before you eat,'" said Ms Halima. She added that they used to have a stand by menu, which demanded all students to eat similar meals every day. However, due to lots of challenges which accompanied the pay before you eat system like striking in case any meal went out of the market, the institution, through consultation with the students

decided to change the system. After an agreement, the institution decided to change the system to "pay as you eat". The manager said that the system "turned to be very successful since it brought a lot of merits to the students as well as the management team." The catering boss says that by introducing the system, most of challenges like threats of striking by students, standby menu as well as incidences where other student had to be given special meals if they could not eat what was in the day's menu were eliminated. She further reiterated that most students embraced the idea since most of them realized that they

...Continued on Page 12



Board of Postgraduate Studies

The Technical University of Mombasa Board of Postgraduate Studies was initiated in August, 2012 with the appointment of a Director. This was followed by the appointment of Board Members in September, 2012. The Board is charged with the responsibility of coordinating Postgraduate Syllabuses and Regulations, Admission of Postgraduate students, Administration of Postgraduate Scholarships and Administration and processing of Postgraduate Theses and Projects or Research papers. It also ensures there is proper conduct and supervision of Postgraduate Studies Programmes.



**Prof. Justin Irina,
Director- BPS**

Science in Molecular Biotechnology under the Laboratory of Plant Genetics and Systems Biology. A PhD. Programme in Molecular Biology is also being developed. These programmes have options in Plant Biotechnology and Medical Biotechnology. Also mooted are Ms.Sc. programmes in Occupational Health and Safety, Conservation Land Management, Public Health and Integrated Coastal Zone Management. The Department of Pure and Applied Sciences is also developing a Masters programme in Chemistry with options in; Industrial Chemistry; Analytical Chemistry; Natural Products Chemistry; Physical Chemistry; Inorganic Chemistry and Organic Synthesis.

All the programmes are designed to meet the quality assurance requirements of the Academic Board, the Senate and the Commission for University Education.



Directorate of Research, Innovation and Extension



Dr. Charles M. Matoka - Director, IRIE

The Institute of Research, Innovation and Extension (IRIE) wishes to congratulate the Council, Management and Academic Boards, Staff, students and other stakeholders of the Technical University of Mombasa (TUM) during the award of University Charter. The Institution has experienced tremendous growth in

capacity building and development, infrastructural expansion as well as curriculum development and delivery. Since her conversion into a constituent college of Jomo Kenyatta University of Agriculture and Technology (JKUAT), the institution has embarked on a concerted effort towards fulfilling her mandate of training, engagement in research and community outreach. The establishment of IRIE in 2009 has seen the institution achieve remarkable milestones in research and innovation.

Despite the challenges experienced by the institution since her conversion, she managed to build a reputable research and innovation base both regionally and nationally as exemplified by her sterling performance in curricular and co-

...Continued on Page 13

TUM Dining Hall Too Small

...Continued from Page 11

were able to save some amount of money compared to the previous system. They also realized that by elimination of the stand by menu, they could eat what they desired to eat. She says that this also made it possible to automate the payment mode since the student were able to deposit the money in the institution's account and whenever it had been reflected in the system, they could merely use their student identity cards to serve for their meals in the dining hall. The DH also started serving a larger number, that is, it moved from serving only boarding students to all people including some of the staffs. The catering manager explained how the DH in the institution has been of great help to most students especially those from the less fortune backgrounds since the prices of the meals are far much subsidized compared to other meal providers around the institution. She disclosed that since the polytechnic is a government's institution, the government helps in subsidizing prices to ensure that meals are affordable to all learners. Startlingly, twenty eight years since inception and over six years since the upgrade, the hall is yet to be expanded to comfortably accommodate the ever growing population. The hall which used to serve less than five thousand people per meal hour now serves over ten thousand persons per meal hour without many changes especially in terms of expansion.

The manager pointed out the space in the hall as main challenge facing their process of service delivery adding that the poly is planning to construct some sheds next to the DH before expansion of the main building.



...Continued from Page 12

curricular activities. As a technical institution, MPUC managed to register a number of patents and literary works. Between 2010 and 2012, the institution registered ten (10) patents with the Kenya Industrial Properties Institute (KIPI). Alongside this, she has registered a Computer based Software with Kenya Copyright Board (KECOBO). The software could be adopted to facilitate Birth and Death Registration, Immigration and Emigration of human population across borders. The institution has developed a mechanical system that is operated using a computer program to aid book acquisition in libraries to facilitate readership and accessibility among the disabled library users.

Equally outstanding, is the ability of the institution to commit her funds through the Council as well as her capacity to attract external grants from donors to support research activities. The institution currently supports a variety of projects that fall in energy, health, water and sanitation, food security, climate change, information and communication technology as well as socio-economic thematic areas. A highlight of some on-going research projects focused on underpinning the tenets of Vision 2030 include: Development of Mobile Phone based Shoe Charger whose prototype was financed by the National Council for Science and Technology (NCST), Torque Controller for Industrial Motors aimed at mitigating electrical energy losses, Intelligent Green House System integrated with

temperature, moisture, photo-irradiation detectors so as to facilitate automatic switching off and on gadgets in growth chambers with potential for adoption in the horticultural industry. The institution is leading a renewable energy project that targets exploitation of marine microalgae to produce biofuel in the form of biodiesel. Researchers from the institution have characterized algal species from which fibre with potential for use in the textile industry can be harnessed. Other unique species whose oil production promises oil/biofuel production sustainability have also been identified. The harvested oil has been tested and found to perform well as a lubricant on light machines. Further evaluation is on-going to provide additional preliminary data for funding to support validation, mass production and up-scaling.

The institution has also engaged in Coconut Research to improve value chain of the products associated with the crop. Deliverables in the research project led to the design and fabrication of a coconut grater, oil and milk pressing machines as well as tile and briquette making machines. The fabricated products have the potential of enhancing job opportunity, income and wealth creation hence poverty reduction. In her quest to contribute towards ensuring food security

against the increasingly changing climatic conditions, the institution has embarked on research to develop drought tolerant maize varieties. While these are just a few of the research and innovation activities undertaken by the institution within the short period of its existence as a constituent college, the entire MPUC fraternity looks forward to the award of the charter as a moment that will usher in a lot of funding and resource mobilization opportunities alongside recruitment of well trained faculty research whose corollary effect in research and innovation activities will exhibit even a more robust engagement than has been witnessed before. The research and Innovation community of the Mombasa Polytechnic University wishes to thank each and every individual for their contribution towards the realization of the full fledged University status of The Technical University of Mombasa.



A student demonstrating his project at the Mombasa ASK show.

TUM Hospitality and Tourism Training Centre



Mr. David Kimeu

The Hospitality and Tourism Training Centre/ Guest house was started in 2007 as a Training Centre for students doing hospitality related courses, and currently cut a niche in accommodation, conferencing and catering. The HTTC/ Guest house exhibits a 3 tastefully furnished en suites and 64 strategically located and elegantly furnished standard rooms, all with balconies with panoramic view of the beautiful leafy suburb of Tudor area. The ocean breeze flows

freely making this guest house one of its kind.

The services and packages are tailored to meet and exceed needs of majority of market expectation. The Guest house provides an idyllic opportunity for conferencing, workshops, seminars as well recreational adventures. It has a boast of 3 air-conditioned and wireless internet connected conference rooms

...Continued on Page 14

...Continued from Page 13

with cumulative capacity of 250 people. The individual conference room capacities range from 30 – 150 participants. The university guest house offers wide range of restaurants options that suit your need and requirements. Our highly acclaimed culinary experts offer exciting cuisines both local and international. The main restaurant has overwhelming menu combination which is done professionally to your taste and style. We are identified with international, African and Coastal business as well as Barbecues and active cooking for breakfast, lunch and dinner that leaves you with momentous experience. If you are looking for accommodation away from the hustle and bustle of the city, the Mombasa Polytechnic University College guest house will



Mealtime

offer you quite, serene and secure place. Our members of staff are at spot on 24/7 to offer you services unconditionally. We are committed to providing quality

hospitality services and training. You are highly welcome to use our facility.

FULL TIME AND EVENING COURSES

THE MAIN CAMPUS AND SATELLITE CAMPUSES OF LAMU AND UKUNDA

I) FACULTY OF APPLIED AND HEALTH SCIENCES

S/N	PROGRAMMES
1	Bachelor of Science in Community Health
2	Bachelor of Science in Mathematics & Computer Science
3	Bachelor of Technology in Medical Laboratory Sciences
4	Bachelor of Technology in Industrial Microbiology and Biotechnology
5	Bachelor of Technology in Applied Chemistry (Analytical and Industrial Options)
6	Bachelor of Science in Food Technology and Quality Assurance
7	Bachelor of Technology in Applied Physics (Electronics and Instrumentation)
8	Bachelor of Technology in Renewable Energy and Environmental Physics
9	Bachelor of Science in Marine Resource Management
10	Diploma in Environment & Health Sciences
11	Diploma in Community Health & HIV Management
12	Diploma in Environmental Sciences
13	Diploma in Medical Laboratory Sciences
14	Diploma in Pharmaceutical Technology
15	Diploma in Industrial Microbiology and Biotechnology
16	Diploma in Food Technology and Quality Assurance
17	Diploma in Food Science and Nutrition
18	Diploma in Science Laboratory Technology
19	Diploma in Analytical Chemistry
20	Diploma in Nutrition and Dietetics
21	Diploma in Nautical Sciences
22	Certificate in Community Health & HIV Management
23	Certificate in Medical Laboratory Sciences.
24	Certificate in Science Laboratory Technology

25	Certificate in Food Technology
26	Certificate in Nutrition and Dietetics
27	Craft in Nautical Sciences
28	Maritime Proficiency
SHORT COURSES	
29	Upgrading Mathematics
30	Certificate in Occupational Health and Safety
31	Certificate in Environmental Impact Assessment & Auditing
II) FACULTY OF BUSINESS AND SOCIAL STUDIES	
	Masters of Business Administration
1	Masters of Science in Entrepreneurship
2	Bachelor of Commerce (Accounting, Finance, Marketing, HRM, Transport & Logistics, Procurement, Management Science options)
3	
4	Bachelor in Business Administration
5	Bachelor of Science in Tourism Management
6	Bachelor of Arts in Development Studies
7	Bachelor of Journalism and Mass Communication
8	Higher Diploma in Human Resource Management and Industrial Relations
9	Higher Diploma in Catering and Accommodation Management
10	Diploma in Accountancy
11	Diploma in Business Administration
12	Diploma in Front Office Operations & Customer Care Management
13	Diploma in Sales and Marketing
14	Diploma in Procurement and Materials Management
15	Diploma in Secretarial and Office Management
16	Diploma in Business Management
17	Diploma in Human Resource Management and Industrial Relations
18	International Diploma in Logistics and Transport Management
19	Diploma in Tourism Management
20	Diploma in Community Development and Counselling
21	Diploma in Hotel and Institutional Management
22	Diploma in Entrepreneurship
23	Diploma in Library and Information Sciences
24	Diploma in Archives and Record Management
25	Diploma in Graphic Design
26	Diploma in Mass Communication (Electronic or Print Media Option)
27	Certificate in Business Management
28	Accounting Technician Certificate (ATC- Intermediate)
29	Certificate in Secretarial & Computer Application
30	Certified Public Accountants (CPA, Section 1)
31	Certificate in Front Office Operations & Customer Care
32	Certificate in Sales and Marketing
33	Certificate in Human Resource Management
34	Certificate in Stores Management
35	International Certificate in Logistics & Transport Management (ICLTM)
36	Certificate in Catering & Accommodation
37	Certificate in Travel and Tours Operations
38	Certificate in Archives & Records Management
39	Certificate in Library & Information Studies
40	Certificate in Community Development and Counseling
41	Certificate in Mass Communication
III) FACULTY OF ENGINEERING & TECHNOLOGY	
1	Bachelor of Science in Civil Engineering
2	Bachelor of Technology in Information and Communication Technology
3	Bachelor of Science in Information Technology
4	Bachelor of Science in Electrical and Electronic Engineering
5	Bachelor of Science in Mechanical Engineering
6	Higher Diploma in Construction (Building or Civil Engineering Option)

7	Higher Diploma in Computer Studies
8	Diploma in Building & Civil Engineering
9	Diploma in Civil Engineering
10	Diploma in Building Engineering
11	Diploma in Architecture
12	Diploma in Quantity Surveying
13	Diploma in Information Communication Technology
14	Diploma in Technology in Electrical and Electronic Engineering (Electrical Power or Electronics option)
15	Diploma in Technology (Electronics & Automation Engineering)
16	Diploma in Technology (Instrumentation and Control)
17	Diploma in Technology (Telecommunication and Information Engineering)
18	Diploma in Technology (Computer & Network Eng.)
19	Diploma in Mechatronic and Robotic Engineering
20	Diploma in Mechanical Engineering (Production or Plant Option)
21	Diploma in Automotive Engineering
22	Diploma in Chemical Engineering
23	Diploma in Marine Engineering Module I
24	Diploma in Marine Engineering Module II
25	Diploma in Marine Engineering Module III
25	Diploma in Medical Engineering
26	Certificate in Building and Civil Engineering
27	Certificate in Quantity Surveying
28	Certificate in Architecture
29	Certificate in Information Communication Technology
30	Certificate in Computer and Network Engineering
31	Certificate in Electrical and Electronic Engineering
32	Certificate in Telecommunication Eng.
33	Certificate in Mechanical Engineering (Plant Option or Production Option)
34	Certificate in Automotive Engineering
35	Certificate in Refrigeration & Air-conditioning
36	Craft in Marine Engineering Module I
37	Craft in Marine Engineering Module II
38	Artisan Seafarers Course
39	Certificate in Medical Engineering

SHORT COURSES

40	Computer Literacy
41	CISCO (CCNA1-CCNA4)
42	SPSS
43	Web Design
44	Digital Video Editing
45	Desktop Publishing
46	Accounting Packages
47	Microsoft Project
48	Programming
49	Pre-Certificate in Information Technology
50	Integrated CISCO for Student taking other programmes

COURSES OFFERED AT LAMU CAMPUS

PROGRAMMES

a) DIPLOMA COURSES

1	Diploma in Community Health and HIV Management
2	Diploma in Business Management
3	Diploma in Sales and Marketing
4	Diploma in Procurement and Materials Management
5	Diploma in Human Resource Management and Industrial Relations
6	Diploma in Community Development & Counselling.
7	Diploma in Information and Communication Technology
8	Certificate in Secretarial Studies with Computer Application

9	Certificate in Business Management
10	Certificate in Community Health and HIV Management
11	Certificate in Store Management
12	Accounting Technician Certificate (ATC) intermediate (Examined by KASNEB)
13	Certified Public Accounting (CPA) Pt 1Sect 1 (KASNEB)
14	Certificate in Sales and Marketing
15	Certificate in Human Resource Management
16	Certificate in Community Development and Counseling
17	Certificate in Information Communication Technology and Maintenance

b). PRE - CERTIFICATE /DIPLOMA COURSES

18	Upgrading Mathematics.
----	------------------------

COURSES OFFERED AT UKUNDA SATELLITE CAMPUS

a) DIPLOMA COURSES

1	Diploma in Business Management
2	Diploma in Human Resource Management and Industrial Relations
3	Diploma in Procurement and Materials Management
4	Diploma in Hotel Management
5	Diploma in Community Development and Counselling
6	Diploma in Information Communication Technology

b) CERTIFICATE COURSES

7	Accounting Technician Certificate (ATC)
8	Certificate in Business Management
9	Certificate in Front Office Operations with Customer Relations
10	Certificate in Human Resource Management
11	Certificate in Stores Management
12	Certificate in Community Development & Counseling
13	Certificate in Technology (Electrical Power Engineering)
14	Certificate in Catering and Accommodation
15	Certificate in Information Technology
16	Pre-Certificate in Information Technology

NOTE:

For All Marine Based Programmes, academic qualifications should be accompanied with a certificate of medical fitness obtained from a medical practitioner approved by Kenya Maritime Authority (KMA).

Fees charged per program

PROGRAMME	TUITION FEE (KSH)
FACULTY OF APPLIED SCIENCES	
BACHELORS	1 st Semester Kshs 62,855/=, Other Semesters Kshs 59,855/=
DIPLOMAS	1 st Semester: Kshs 38,865/= , Other Semesters: Kshs 33,865/= each
CERTIFICATES	1 st Semester : Kshs 23,615/=, 2 nd Semester Kshs 21,115/=
FACULTY OF BUSINESS & SOCIAL STUDIES	
MASTERS	4 th Semester Kshs. 48,475/=
BACHELORS	1 st Semester : Kshs 52,855/=, Other Semesters Kshs 49,855/=
HIGHER DIPLOMAS	1 st Semester: Kshs 34,355/=, 2 nd Semester Kshs 31,355/=
DIPLOMAS	1 st Semester : Kshs 32,955/=, Other Semesters Kshs 27,955/=
CERTIFICATE	1 st Semester : Kshs 23,615/=, 2 nd Semester Kshs 21,115/=
FACULTY OF ENGINEERING TECHNOLOGY	
BACHELORS	1 st Semester: Kshs 72,885/=, Other Semesters Kshs 69,855/= each
HIGHER DIPLOMAS	1 st Semester : Kshs 43,475/=, Other Semesters Kshs 38,975/= each
DIPLOMAS	1 st Semester : Kshs 38,865/=, Other Semesters Kshs 33,865/= each
CERTIFICATES	1 st Semester : Kshs 32,775/=, Other Semesters Kshs 28,275/= each

Student Services Department



Dr. Daniel Munga - Dean of Students

The Student Services Department, headed by the Dean of Students, is responsible for students' activities and welfare. The services provided consist of the following;

- Accommodation
- Catering
- Health services
- Guidance and counseling
- Sports and games.

Accommodation

There are six hostels in the main campus with a total bed capacity of 800 students. The proximity of the hostels to the administration and tuition area and security make the former the preferred place to stay. The limited bed capacity provided by the hostels is supplemented by a number of privately run hostels near the main campus. A team coordinated from the department periodically assesses the quality and standards of the hostels and advises students seeking accommodation accordingly. Conversely the team advises the management of the private hostels on the standards expected of their facilities.

Catering

The main kitchen and dining hall primarily serve the students that reside in the university hostels on a pay-as-you-eat basis. The dining hall also serves clients on a pre-paid arrangement. The dining hall serves a variety of foods at very competitive prices.

Health Services

The Health Unit offers healthcare mainly in the curative, preventive and promotive care services. The curative services offered include;

- Diagnosis and treatment of common ailments

- Referral of complicated medical conditions requiring in-patient care and specialized treatment
- Minor surgical procedures.

With the increasing student population, the Health Unit is focusing on strengthening promotive care services, which include;

- Family planning and antenatal care
- HIV and AIDs programmes
- Tuberculosis control programmes.

Guidance and Counseling

The services offered by this section target students, staff and neighbouring communities, and include, providing leadership in individual counseling, HIV and AIDS and drug abuse control and prevention activities. The section has a Resource Centre and an operational Voluntary Counseling and Testing (VCT) Centre, accredited by the National AIDS and STDs Control Program (NASCO) since 2004. A number of the activities, including outreach are conducted in collaboration with stakeholders, such as peer educators, behavior change communication groups and the National AIDs Control Council, among others.

Sports and Recreation

This section promotes "Sports for all" for recreation and well-being of the student fraternity. The section coordinates sports and games and ensures the provision of equipment and facilities. Students have the opportunity and choice to participate in various activities, which include, ball games (football, rugby, volleyball, basketball, and handball), martial arts (Tae kwondo and karate), indoor games (badminton, table tennis, chess) and athletics.

Associations

Students are encouraged to join professional or social clubs and societies which are registered under the guidance of the department. Religious associations provide forums for spiritual nourishment to students and the opportunity to develop into responsible and morally upright citizens.

The Students' Work Study Programme

The mission of the programme is to promote the dignity of honest work by providing opportunities for students to work within the University College, and thus enabling them to contribute to the general improvement of the institution. The programme provides needy students with opportunities to raise funds to supplement their fees by doing gainful work for the University College.





For further information, Contact:

Ag. Vice Chancellor

Technical University of Mombasa (TUM),

P. O. Box 90420 - 80100, MOMBASA-KENYA.

TEL: (254) 41-2492222/3, FAX: (254) 41- 2495632,

Mobile: (254) 0724-955377 / 0733 -955377

E-mail : principal@mombasapoly.ac.ke Website: <http://www.mombasapoly.ac.ke>