

THE TECHNICAL UNIVERSITY OF KENYA

Education and training for the real world

3RD GRADUATION CEREMONY



2015



Friday, 18th December, 2015 Starting 9.00 am

CONGRATULATIONS TO THE CLASS OF 2015



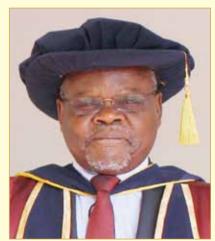
Dr. Manilal (Manu) P. Chandaria, OBE, EBS, Chancellor

I join the TU-K community during this auspicious occasion of the 3rd Graduation Ceremony. I congratulate the graduands for making the university, parents and sponsors proud. You have worked very hard to see your academic dream comes true. Treat today's graduation as a transition to another phase of your academic and career pursuits for which the university has prepared you. As a university we are proud of the alumni who have continued to fly high the flag of TU-K wherever they are working or pursuing higher studies.



Prof. Godfrey M. Nguru,Council Chairman

Congratulations to the Class of 2015. We at TU-K, are proud of you for the good work and character you have shown over the period you have been students here. The University Council will continue to improve the learning environment through capital development projects to ensure quality learning. It is a moment of joy for all of us as we release another cohort of students to join a growing number of alumni who have continued to do well in the job market thus vindicating the quality of teaching and learning at TU-K.



Prof. Dr.-Ing. Francis Aduol Vice-Chancellor

As we hold our 3rd graduation ceremony, I wish to assure our current and prospective students that we are continuously improving the quality of education and training offered at TU-K. The university has initiated partnerships with the industry and universities from across the world to make possible knowledge sharing and transfer for our students and staff. In a modest way, TU-K is contributing to national development by producing fully-baked graduates with practical skills who seamlessly fit in employment.

MOMENT OF PRIDE FOR GRADUANDS

Today, The Technical University of Kenya is celebrating its 3rd graduation ceremony in which 2636 graduands will be awarded degrees, diplomas and certificates in various disciplines. The ceremony to be held at the university located off Haile Selassie Avenue Nairobi, will be presided by the Chancellor, Manu Dr Chandaria. Among the expected guests are the Cabinet Secretary for Education, Science and Technology, Dr Fred Matiang'i, members of diplomatic corps, senior government officials and CEOs from public and private sectors.

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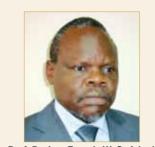
Prof. Dr.-Ing. Francis W. O. Aduol



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MARKET-READY GRADUATES

Engineering graduates from The Technical University of Kenya (TU-K are readily absorbed in the labour market, majority of them within their first year after graduation.

This is according to a tracer study carried out in June this year. The research study indicates that 75 per cent of our graduates are employed largely in the private sector while 25 per cent are self-employed.

The study covered Bachelor of Engineering and Bachelor of Technology in Electrical and Electronic Engineering graduates of between the year 2008 and 2011.

The survey sought to establish employment opportunities and performance of Bachelor of Technology in Electrical and Electronic Engineering graduates with



TU-K students in an engineering workshop

the aim of establishing relative performance of graduates with regard to securing employment and effectiveness in the world of work.

The findings are key in driving the university's creativity and problemsolving approaches through

industry-based learning. Majority of the respondents were satisfied with their current jobs. If given another chance to study, 87.5 per cent of the respondents would very likely choose the same course of study, while 85 per cent would very likely choose TU-K.

he first batch of 24 degree aeronautical engineering students to be locally trained by a university will be among those graduating today. The students have completed a five-year course in Bachelor of Engineering in Aeronautical Engineering.

The university boasts of some of the best training facilities in Africa. TU-K is the premier institution training aircraft engineers in the East and Central Africa region. The university's precursor institution - Kenva Polytechnic, started training aircraft maintenance engineers in 1970. Our alumni have a strong presence in both local and international aviation industry.

The degree students joined TU-K in 2011 and have now successfully completed their course.

The graduating class undertook their industry-based learning at Kenya Civil Aviation Authority (KCAA), Kenya Airways and the USA-based Boeing Company, the world's leading civil commercial

KENYA'S FIRST AERONAUTICAL ENGINEERING GRADUATES



Kenya Airways plane takes to the sky.

aircraft manufacturer.
TU-K's Department of
Aeronautical Engineering
has working relationship
with Cranfield
University-UK and
the Royal Aeronautical
Society of UK, Car and
General-USA, KCAA,

Kenya Airways, Boeing Company-USA, among others. Our students usually receive training from some of the best in the aviation industry both locally and internationally. The industry insiders say there is a shortage of

well-trained aeronautical engineers, a void TU-K is determined to fill.

The students spend most of their learning time in the engineering laboratories and workshops at TU-K and in partner institutions including KQ and KCAA

where they train in mechanical engineering, engine development, fleet management, component analysis among other disciplines. During internship, the students get involved with experts in repairing aircraft wings

among many other duties that offer them practical skills.

TU-K also offers Diploma in Technology in Aeronautical Engineering and Certificate in Aircraft Maintenance programmes.



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TU-K IN THE FRONTLINE OF **CUTTING EDGE** RESEARCH



Prof. Fiona Mbai, Ph.D Director Research and Knowledge Exchange

TU-K continues to build competencies aimed at supporting the interface between science, engineering, technology and sustainable development. The university has established a platform for research integration into academia which is geared towards developing innovative solutions in science, engineering, technology, entrepreneurship, industry, and, in policy and decision-making. Through the Directorate of Research and Knowledge Exchange, 25 early career researchers at TU-K have been selected to be trained through a programme supported by the Association of Commonwealth Universities which started in September 2015 to end in June 2016. Notably, four TU-K members of faculty this year won research grants offered by the National Commission for Science and Technology to conduct research in engineering, food science, solid waste

Sh100m water project coming to an end

management and health.

A project meant to strengthen the Technical University of Kenya to Enhance delivery of quality education programmes in Integrated Water Resources Management" that was funded by the The Netherlands Initiative for Capacity Development in Higher Education (NICHE)to the tune of about Sh100 million, is coming to an end this year. Through this project, the expertise of Dutch organisations combined with local or regional expertise, utilised to assist with capacity development. The project was initiated and spearheaded by Prof. Paul M. Shiundu, the Deputy Vice-Chancellor -Academics, Research & Students who was also the project team leader

As a result, TU-K was able to send three members of staff to pursue their Ph.D studies at the University of the Western Cape, South Africa, and several others have pursued graduate studies in local institutions. As a result of the project, TU-K has been able to upgrade some of its teaching and research equipment such as server systems, video conferencing and video streaming solutions, field sampling equipment and expendable supplies.

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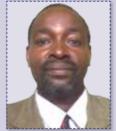
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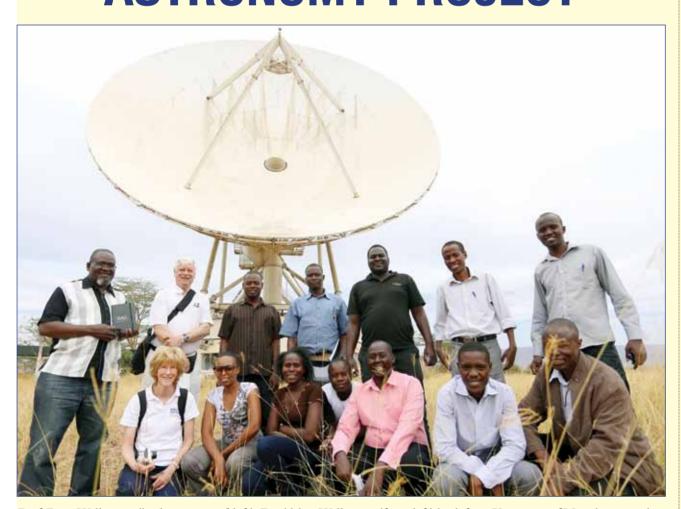


Dr. Patrick DikkirDirector, Centre for Science and Technology Studies



Dr. Garnet Oluoch - OlunyaDirector, Centre for Creative and
Cultural Industries

TU-K STUDENTS IN RADIO ASTRONOMY PROJECT



Prof. Peter Wilkinson (back row, second left), Dr. Althea Wilkinson (front left) both from University of Manchester with Technical University of Kenya, School of Physical Sciences and Technology Director Prof. Paul Baki (left) and Radio-Astronomy trainees during a visit to Longonot Satellite Earth Communication Station

TU-K's School of Physical Sciences and Technology is involved in a training programme in radio astronomy under the Square Kilometer Array (SKA) project that will set base at Longonot within five years. The site will be used in space studies as well as technological research. Plans are currently

underway to refurbish the old Longonot Satellite Earth Communication Station into a modern state-of-the-art radio telescope. The old station was phased out by fiber optic technology in 2013. This science initiative will be the next driver of technological growth in Africa.

The project is geared towards training young minds in pure sciences, it is tuned to building of high technology quality ideas, high performance computing and generation of big data.

The space experts are currently taking the trainee group through initial studies in radio astronomy at TU-K.

After this, the team will proceed to South Africa in February 2016 for further training.

The project is currently running in South Africa, Kenya, Namibia and Zambia. It is funded by the United Kingdom government through Newton Fund Project.

KQ IN TRAINING AND JOB PLACEMENT DEAL WITH TU-K

Kenya Airways and Technical University of Kenya (TU-K) have signed a memorandum of understanding that would see both institutions work together in creating opportunities for students Bachelor taking of Science in Aeronautical Engineering and those pursuing Piloting and Aircraft Maintenance access industrial attachments and employments.

TU-K students seeking industrial attachment at KQ will increase by more than half of the number currently attached at the airways beginning 2016.

Some of the airline's sections where students are attached and even

employed include cabin crew management, piloting, aviation, business management, aerospace engineering, passenger and cargo management, radio communications and broadcasting sections.

TU-K students who have previously been attached with the company are dedicated, hands-on and hardworking which has contributed greatly to the growth of the company.

Capital Connect, Aviation, an aviation training institution in both small and commercial aircrafts, are also in talks with TU-K to offer wider internship and employment opportunities to continuing students and graduates.

STAFF TRAINED IN MOULDING TECHNOLOGY

shwane University of Technology (TUT) of South Africa has partnered with Technical University of Kenya (TU-K) to train TU-K Technicians, Technologists and Master of Technology students on a special technology used in manufacturing plastic materials and parts.

The intensive training is designed to build capacity on fundamentals

of injection molding, a massive and complex technology process used in the manufacture of more than 40 per cent of plastic materials.

Majority of African plastic and parts manufacturing industries are still dependent on injection moulding technologies from India, China or Europe. TU-K is determined to fill this void in plastic manufacturing in the region.