# UNIVERSITY OF MAIROSI, 5131 GRADUATION CEREMONY



Agriculture and Veterinary Sciences, Architecture and Engineering, Biological and Physical Sciences, and Education and External Studies



## Message from the Chancellor

### Challenging the youth of this nation

extend my special greetings and best wishes to all graduands of the 51st Ceremony of the University of Nairobi. This is a momentous occasion for the graduands, their parents and guardians, lecturers and the entire University community because it symbolizes the successful conclusion of a long and challenging journey to academic excellence.

Our graduates must contribute to the development of the nation, and make a positive impact on society.

I urge you to make use of the skills acquired and requisite competencies to surmount challenges. At this point in time, we need our graduates to embrace self employment, helping in creating jobs so that our country can experience rapid growth. We live in challenging times and all individuals must share in growing the economy. We challenge our graduates, they who are privileged to be educated, to view themselves as linchpins creating opportunities for others.

I wish to acknowledge the contribution of University of Nairobi's dedicated staff who have put many hours in ensuring that the University remains at the top, for instance, in Webometric ranking that has seen the University of Nairobi emerge number 1 in the region, is the best result posted by any regional university since the advent of web ranking in 2004.

During my recent tour of the University, I noticed that the University is well endowed with physical infrastructure that supports our academic activities. I also noticed that the University is expanding its facilities to support the increased need for higher education in the country. In this regard I wish to thank some of our benefactors including the Chandaria Foundation for their generous contribution of KES 50 million.



Dr. Vijoo H.M. Rattansi (Mrs.) Chancellor, University of Nairob

endeavor to transform this University, we must be prepared to surmount the challenges associated with a change process. We must all be committed to continuous improvement and to remain focused in achieving our ultimate goal to be a truly world class university. I am proud of the University, which embarked on the road towards world class excellence, with reforms that so far are a model for other public universities.

The University of Nairobi brand is expensive, and like a reputation, it must be jealously guarded; I therefore encourage all of us not rest on our laurels, but rather, we should expand and maintain the quality of education that we offer. The number of alumni has surpassed the 156,000 mark and it is my request that you join the Alumni Association and participate actively in support of the University.

### Message from the Chairman of Council

### Commitment to excellence in goods, products and services

wish to congratulate the graduating class of 2014, who are celebrating the fruits of years of hard work that have culminated in this day. Graduation marks a significant achievement in your lives and we are all very proud of your accomplishment. I wish to remind this proud of your accomplishment. I wish to remind this cohort of graduands that the country is experiencing rapid economic growth, improving and developing infrastructure, new technologies and a well-educated workforce. The excellent skills you have acquired at this University should put you ahead of the pack to fit into this rapidly developing economy and to ensure that you serve your fellow countrymen and humanity at large.

The Web Ranking of Universities has once again

onfirmed the scholarly competitive edge the University of Nairobi (UoN) has steadily maintained its commitment to excellence, through offering programmes in diverse fields of specialization. As the University adapts to the legislation of the Universities Act 2012 that allows greater access to university and higher education for all citizens, we will be innovative in order to get more students and establish more programmes while still maintaining and enhancing the high quality of education and training, to enable us produce wholesome graduates with a marketability edge. I challenge the University community

to redouble its efforts in teaching, examining and providing a wholesome learning experience.

I salute our Chancellor, Dr Vijoo Rattansi for fitting in so well to the UoN family, the Chancellor has so far visited virtually all the colleges and I know that the Council will be working very closely with her in the areas of capacity building. Infortprivative, development, and teaching building, infrastructure development and teaching facilities. We look forward to her contribution.

I wish to reaffirm that the Council will embrace dialogue as a means of resolving industrial disputes, placing high priority in allocating resources to promote staff welfare thereby boosting morale and creating a conducive work



Dr. Idle Omar Farah Chairman University Council

environment and equitable rewards system. At this juncture, I want to thank the student body SONU for conducting its elections with maturity; I welcome the incoming team in full assurance that they will participate and walk with the Council and management as they serve their

The University has been able to discharge its mandate effectively because of the support that we have received from our stakeholders including the government which supports us financially, providing the recurrent expenditure that we require to run this institution. On its part, the University has committed to generate cash flows to supplement government capitation. wish on behalf of the Council, to appeal to the government to increase funding which has been sharply reduced this year. With such enhancement, the Council can fully engage in the futuristic planning and projected growth of the University.

## Message from the Vice-Chancellor

### Contributing quality manpower for national development

It is my pleasure to welcome you all to the University of Nairobi and in particular to the 51<sup>st</sup> Congregation of the University of Nairobi. I also take this opportunity to congratulate the graduands for their hard work, without which, this occasion would not have taken place. This Congregation is featuring graduands from the Colleges of: Agriculture and Veterinary Sciences, Engineering and Architecture, Biological and Physical Sciences, Biological and Physical Sciences, and Education and External Studies. From a professional perspective, the congregation is graduating engineers, architects, valuers, quantity surveyors, designers, veterinary doctors, agriculturists, actuarists, statisticians, physical and biological science specialists and teachers, among many

This number adds up to the more than 156,000 graduates of the past 50 congregations making the University of Nairobi the largest single contributor to the human resource capacity in the country. These graduands were tutored and mentored by highly qualified staff comprising of 146 Professors, 276 Associate Professors of the over 1700 qualified academic staff. Our staff have been responsible for teaching, research and dissemination of their academic work, and through their efforts, we have managed to grow our research fund to over KES 3.5 billion annually and our scientists are winning prizes worldwide.



Prof. George A. O. Magoha Vice-Chancellor

The University of Nairobi has been confirmed by the recent web-ranking as the gold standard of the region after emerging in position 9 out of 1307 Universities in Africa ahead of all regional universities for the second time in six months. It was also ranked worldwide at position 907 out of over 22,000 Universities, an improvement by 419 places from its previous rank. Indeed only universities from South Africa and Egypt were ahead of us. This performance is a climax of the great academic work by our staff and students thus raising visibility of the University worldwide. It also vindicates the systems we have consciously put in place for the last 10 years which are now bearing fruit. While most of the facilities are upto date, a lot more needs to be done on others. New facilities need to be put up to cope with

the rising demand for our services. To meet this demand, we have invested over KES 3 Billion in constructing new facilities and completed the ones that had stalled in the 1990s. This investment is expected to increase by KES 2.2 Billion if we factor in the completion of the ongoing construction of the university towers and a further over KES 500 million if we consider the ongoing projects at the College of Health Sciences and Kisumu Campus. However, for this University to have capacity to absorb the increasing need for higher education in the country, more facilities are required to support academic and social welfare of our students. It is in view of this situation that the University has become more aggressive in fundraising to support infrastructural projects. In this regard, the University Community is grateful to the positive reaction to our efforts; my humble appeal goes to organizations and benevolent Kenyans to support the University in building its capacity in offering higher education.

I am also grateful to the government for ensuring that the University meets its financial obligations particularly in the recent Collective Bargaining Agreement that was due to our members of staff for the last two financial years. My humble request to the government as the biggest benefactor is to consider increasing capitation to the University of Nairobi to at least cater for the payroll, and free funds generated from income generating activities, which are mainly used to supplement the payroll, to be used to fund development projects.



Prof. Henry Mutoro, Deputy Vice-Chancellor, Academic Affairs



Prof. Peter M.F. Mbithi, Deputy



Prof. Isaac M. Mbeche, Deputy Vice Chancellor, Student Affairs





Prof. Bernard Aduda, Principal, College of Biological & Physical Sciences





Prof. Bernard N.K. Njoroge, Principal, College of Architecture and Engineering



Prof. Isaac K. Kibwage, Principal, College of Health Sciences of Humanities & Social Sciences



Prof. Isaac Jumba, Principal, College Prof. Peter K'Obonyo, Deputy Principal, of Education and External Studies College of Humanities & Social Sciences



Prof. Horace Ochanda, Deputy

# NUINERALLA OL VIVIKORI" 2121 QKVDN7410V GEKEWOVA



turing Colleges of Agriculture and Veterinary Sciences, Architecture and Engineering, Biological and Physical Sciences, and Education and External Studies



#### Our Vision

A world-class university committed to scholarly excellence.

#### Our Mission

To provide quality university education and training and to embody the aspirations of the Kenyan people and the global community through creation, preservation, integration, transmission and utilization of

#### Core Values

- Freedom of thought and expression:
- Innovativeness and creativity;
- Good corporate governance:
- Team spirit and teamwork; Professionalism;
- **Ouality customer service:**
- Responsible corporate citizenship and strong social responsibility; Respect for and conservation of the environment.

#### SUMMARY

Total	5,090
Doctor of Philosophy Degrees Awards	19
Postgraduate Diploma Awards	35
Masters Degree Awards	651
Diploma Awards	1,508
Bachelor Degree Awards	2,877

## **College of Agriculture and Veterinary Sciences**

The College of Agriculture and Veterinary Sciences (CAVS) is one of the six colleges of the University of Nairobi. CAVS comprises two faculties: Agriculture and Veterinary Medicine. These

faculties comprise four and five teach-ing departments respectively, backed by teaching, research and consultancy facili-

The Faculty of Agriculture offers seven

#### GRADIIANDS CHRERADY

COLLEGE OF AGRICULTURE AND VETERINARY SCIENCES	Diploma Awards	45	28	73
	Bachelors Degree Awards	214	108	322
	Master Degree Awards	27	22	49
	Doctor of Philosophy Degree Awards	4	2	6
TOTAL		290	160	450

degree programs, namely Bachelor of Science in Agriculture, Bachelor of Science in Food Science and Technology, Bachelor of Science in Range Manage-ment, Bachelor of Science in Agribusiness Management, Bachelor of Science in Agricultural Education and Extension, Bachelor of Nutrition and Dietetics and B.Sc. Agro-Ecology and Environment

Management.
The Faculty of Veterinary Medicine was established in 1940 as a diploma school for Animal diseases but later, Bachelor of Veterinary Medicine was offered from the mid 1960s. It comprises five teach-

the exercise of human control over man's

The College has trained the largest number of professionals in its field of spe-

cialization and contributed immensely to

physical environment.

ing departments. Among these, one is a pre-clinical department, namely; Department of Veterinary Anatomy and Physiology which is located at Chiromo Campus.

The Faculty offers three undergraduate Degree programmes, namely elor of Veterinary Medicine, Bachelor of Science in Biomedical Technology and Bachelor of Science in Wildlife Management and one diploma programme in Animal Health and Production. In addition, the Faculty runs a postgraduate diploma and certificate courses.



n G. Kiama, Director



Prof. Charles Mulei Dean,



Faculty of Agriculture

## The College of Architecture and Engineering

The College has a long history and strong tradition in this region for quality training and resource in the area of engineering technology, the built environment stud-ies and design. It started under the Royal Technical College of East Africa in 1956 with the Faculties of Architecture and Engineering, providing quality and spe-cialized education to students from the Eastern Africa region. Currently, the College offers 24 degree

Diploma Awards

**Bachelors Degree Awards** 

Master Degree Awards

Postgraduate Diploma Awards

Doctor of Philosophy Degree Awards 3

GRADIIANDS SHAARARY

COLLEGE OF

ARCHITECTURE

ENGINEERING

TOTAL

courses at both undergraduate and postenjoys the support of qualified and com-petent technical staff in all the teaching and research units. The common theme running through these subject areas is

graduate levels and has a student population of 2000 with a staff complement of 170 comprising of 5 professors; 18 asso-clate professors, 33 senior lecturers,105 lecturers, 8 assistant lecturers and one graduate assistant. The academic staff

6

156

13

0

the development needs of the country and region. This is in line with Goals No.1 and 7 of the Millennium Development Goals (MDGs) and a big contribution to the realization of Vision 2030, whose economic, social and political pillars are anchored in, among others, infrastructure, energy, science, technology and innovation (STI) and human resource development. The training of engineering students requires that the students are attached to industry so that they are able to bridge the divide between theory and practice. Each year, the College through its Industrial Attachment Programme, places about 200 students in various in-

dustrial establishments to work and hence provide a direct service to society and help build the nation. Beside the teaching and research mandate, the College has two units that provide avenues for outreach and community service; namely the Faculty Projects Office (FPO) and the Industrial Research and Consultancy Unit (IRCU) with existing capabilities and capacities that have different functions. The College has the following Schools:

- 1. School of the Built Environment
- 2. School of the Arts and De sign
- 3. School of Engineering 4. Institute of Nuclear Science and Technology





Dr. Walter Onyango, Director School of the Arts and Design

Mr. David Maina, Director

## The College of Education and External Studies

461

34

The College Of Education and External Studies (CEES) situated in the serene environment of Kikuyu is one of the colleges of the University of Nairobi which has undergone various transformative changes to cope with global educational changes. The College consists of the School of Education, School of Continuing and Distance Education, Centre for Open and Distance Learning and Open Learning and E-Learning Centre.

In spearheading global educational goals, the College has played a key role in the training of teachers for secondary and tertiary institutions in the East Africa region and early childhood teachers also trained at the School of Education to strengthen education from early It offers programmes in education and other disciplines at undergraduate and graduate levels.



Prof. Harriet Kidombo, Dean, School of Continuing



10

617

47

3

679

Mr. Jeckoniah Odumbe



Prof. Samson Gunga Dean,

	PROGRAMMETYPE	MALE	PEMALE	TOTAL
COLLEGE OF EDUCATION AND EXTERNAL STUDIES	Diploma Awards	706	663	1369
	Bachelors Degree Awards	848	518	1366
	Postgraduate Diploma Awards	7	3	10
	Master Degree Awards	223	210	433
	Doctor of Philosophy Degree Awards	2	0	2
TOTAL		1,786	1,394	3180

## College of Biological and Physical Sciences

he College of Biological and Physical Sciences (CBPS) which is located at Chiromo Campus consists of the School of Biological Sciences, School of Computing and Informatics, School of Mathematics, School of Physical Sciences and Pre-Clinical departments of Human Anatomy, Biochemistry, Medical Physiology and Veterinary Anatomy and Physiology.

The School of Physical Sciences

The School's student-centred approach to teaching and learning is geared towards ensuring that our graduates emerge with high level communication and problem solving skills, the flexibility to adapt to new situations and the ability to become future leaders in their chosen fields. Collectively, the School's five (5) departments (Chemistry, Geology, Geography and Environmental Studies, Meteorology and Physics) offer a wide range of Undergraduate and Postgraduate programmes providing our students with the breadth of choice necessary

for making those vital decisions about their intended career path.

#### The School of Computing and Informatics

The School is charged with teaching and research activities relating to Computer Science. The research activities of the School are organized around three research groups:

- Information systems
- Distributed systems
  Artificial intelligence

### School of Biological Science

The School is the proud product of a merger of two of the oldest and well-known departments of this University - Botany and Zoology. Its mandate is two fold: firstly to train personnel in the biological field so as to meet the job market in both the academic and industrial spheres, and secondly, to conduct research in relevant basic and applied biological fields.

CONTINUED NEXT PAGE

# ロリハミスタレス のと ハドバスのヨア シリュ、 ロストプロデストロック CEKEMのリス



Biological and Physical Sciences, and Education and External Studies

Breakdown, PhD: 19. Masters: 651. Bachelors: 2,877. Postgraduate Diploma: 35. Dip



## College of Biological and Physical Sciences

#### FROM PREVIOUS PAGE

The School offers undergraduate and postgraduate courses in the following broad areas:

- Systematic and economic biology, physiology and biochemistry, phytochemistry, cell sciences, molecular
- Sciences and biotechnology, virology, bacteriology and mycology, Parasitology, immunology and insect sciences.

#### The School of Mathematics

The School of Mathematics is one of the largest in the University of Nairobi with an establishment of 44 teaching staff and 6 non-teaching staff. The school enrolls about 1700 students each year.

The physical location of the school is at Chiromo Campus, which is the Science Campus of the University of Nairobi. School of Mathematics offers specialized training in Pure Mathematics, Applied Mathematics, Statistics, Biometry, Actuarial Science,

Modelling and Operations Research. The educational and research activities of academic staff and students span a broad range of topics in mathematics, statistics, probability and modelling.

# Centre for Biotechnology & Bioinformatics (CEBIB)

The theme of CEBIB Biotechnology programmes is to support applied and strategic research activities leading to research and development of biotechnology products by utilizing modern biotechnology tools and also conduct high quality basic research. The areas of research include: malaria, development of an in vitro screening procedure for identifying drugs

from natural products, HIV/AIDS, snake bites, diagnostics for animal diseases, repositories for the conservation of living organisms including microbes both useful and harmful in agriculture, human health, animal husbandry and bio-industry. Vaccine research and development, tissue culture pilot plant/ micropropagation technology, aquaculture and marine biotechnology.

The research program on green chemicals and white biotechnology focuses on the development and application of clean processes based on the biocatalysis for production of biotechnological products from renewable materials and biomass.

	8
	-
100	200
W. CAN	TOTAL PA
	-
100	- Section
No. of the last of	and a
二次2000亿,除60	Million of





Prof. P.G.O. Weke, Director School of Mathematics



Prof. P.N Ndegwa, Director, School of Biological Sciences



Prof. William Okello, Director, Schoo

#### COLLEGE OF BIOLOGICAL Diploma Awards **Bachelors Degree Awards** 401 572 AND PHYSICAL Postgraduate Diploma Awards 12 11 23 Master Degree Awards 122 Doctor of Philosophy Degree Awards TOTAL 237 781

### University Highlights



The President of the Republic of Kenya, H.E. Hon Uhuru Kenyatta lays the Foundation stone for the University of Nairobi Towers. Once complete, the towers will reflect the position of the University of Nairobi as the leader in architectural thought, innovation and champion towards the provision of environmentally friendly solutions.



The representative of the Chandaria Foundation, Dr. Manu Chandaria, presents a cheque of KES 50 million towards the construction of the University of Nairobi Towers. Upon completion, one floor dedicated to performing arts will be named the Chandaria Centre for Performing Arts.





Dr. Vijoo Rattansi is taken through the paces of dental procedures by the College of Health Sciences Principal, Prof. Isaac O. Kibwage during her tour of the University. Dr. Rattansi toured all the six colleges over a period of two weeks during which she was acquainted with activities in research, teaching and community service.



The Vice-Chancellor, Prof. George Magoha unveils former Chancellor, University of Nairobi, Dr. Joseph Wanjui's 3rd book "Native Son, Experiences of a Kenyan Entrepreneur", during the launch ceremony at the Vice-Chancellor's parlor. The book was published by the University of Nairobi Press.

# UNIVERSITY OF NAIROBL SIST GRADUATION CEREMONY

Featuring Colleges of: Agriculture and Veterinary Sciences, Architecture and Engineering, Biological and Physical Sciences, and Education and External Studies On Philay, Angust 29, 20

Breakdown: PhD: 19, Masters: 651, Bachelors: 2,877, Postgraduate Diploma: 35, Diplomas: 1,508, Tota



# UoN establishes Molecular Biology Application Lab

he University of Nairobi (UoN) in partnership with QIAGEN, Germany and Bio-Zeq Kenya have established a Molecular Biology Application Laboratory.

The fully equipped laboratory hosted at KAVI- Institute of Clinical Research, College of Health Sciences, will advance skills in molecular biology in research, clinical diagnostics, treatment and forensics investigation. UoN becomes the first academic institution to set up such a facility in Africa as well as the University to host the first Molecular Biology Amplification workshop in the East African region.

Stakeholders can take advantage of the opportunity presented and collaborate with the University in research and training of forensic sciences investigators. The use of molecular biology in medicine has revolutionized the way research, surveillance, diagnosis, treatment and prevention are conducted. Molecular biology is at the core of understanding how the living world functions. The move comes at an appropriate time as there have been minimal advances in molecular biology in Africa. These advances are also being applied in forensic sciences to improve in forensic investication.

The University of Nairobi is keen on creation of new scientific knowledge that has informed policy and improved practice in various fields, industry players can widen their scope of collaboration to include research which is key to the development of the nation.

The University of Nairobi is keen on creation of new scientific knowledge that has informed policy and improved practice in various fields, industry players can widen their scope of collaboration to include research which is key to the development of the nation."

KAVI's initial motivation was to conduct basic HIV research, epidemiology and carry out research aimed at the discovery of an HIV/AIDS vaccine. Over the years, KAVI has experienced tremendous growth, and conducted nine HIV vaccine trials, ten basic sciences research projects, multiple epidemiologic research projects and most important established an international accredited research laboratory. In addition, KAVI has pioneered the discovery of highly potent and broadly neutralizing antibodies against the HIV virus, this pioneering work has had tremendous impact on the search of an HIV vaccine. The Institute is now recognized as a centre of mucosal immunology in the region having pioneered research projects on mucosal sampling and standardization of mucosal immunity assays. These mucosal assays have now been incorporated in the evaluation of immune response against

# Growth of research portfolio

The University of Nairobi continues to be a soul searching, active, fact finding community, proposing solutions for adoption by society. In the last ten years, in collaboration with government and NGOs, staff and students have spearheaded initiatives to find solutions to problems such as rapid population growth, poverty and disease, which constrain development activities. Such research carried out has been key to accelerating social economic progress propelling Kenya at international, scientific and technological fora.

The University portfolio for research is a staggering 3 billion. This figure, is astonishing more so when one considers that only 10 years ago, the portfolio was 300 million.

In order to consolidate research, the University established a Research, Production and Extension division about three years ago. The division, which is handled by the DVC, Prof. Lucy Irungu, has been critical in creating a culture of innovation

or innovation through acquisition, creation, preservation, integration, transmission and utilization/ application and knowledge.

The first task

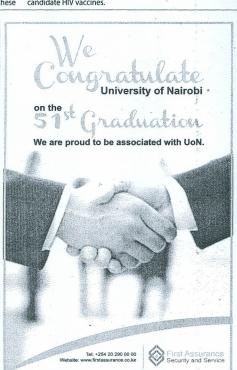
of the division was to train academic and technical staff to write winning grant proposals as part of raising the visibility of our research capacity, potential and portfolio. In the last five years, University researchers working in teams have collaborated on a number of interesting projects that range from HIV/AIDs, to motor transport, from social movements, to population cases and to food security with research carried out on beans, pigeon peas, new seed varieties, potatoes, and cassava.

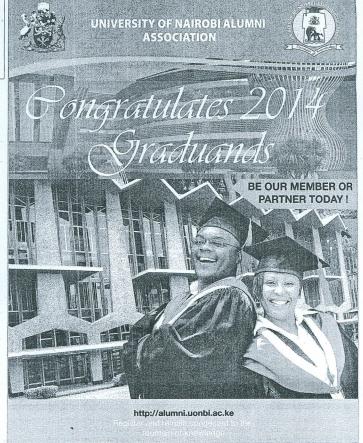
Some of the prolific researchers on HIV/AIDs include: Omu Anzala whose efforts attracted a 938m research grant in the University in 2010, while Elizabeth Ngugi has received international accolades for her work in HIV/AIDs as it pertains to most at risk populations. At the Faculty of Agriculture, Agnes Mwangombe heads a team that has over the last five years developed over eight new varieties of breeder seeds: Kenya Mavuno; Kenya Safi; Kenya Mavuno; Kenya Safi; Ke

nya Tamu; Miezi Mbili; Kenya Sugar; New Roscoco; and Kenya Kidney.

The varieties are early maturing, resistant to several bean diseases, have consumer preferred grain characteristics and cooking quality. Prof. Njuguna Ngethe, addressed the knowledge economy by undertaking research on the factors affecting completion pace and rates of doctoral studies in Kenyan Public Universities.

In a separate development, the University has been building research uptake management capacity. The University is a member of the Development Research Uptake in Sub-saharan Africa networks and has received bursaries in continuing professional development in research uptake, support for MPhill programmes, and support to stage events. The network is opportune for facilitating the UoN to research for a bigger impact on policymaking and society.





University of Nairobi Committed to Scholarly Excellence • www.uonbi.ac.ke